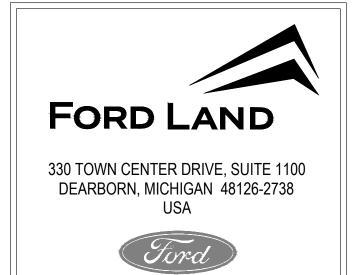
S	HEET INDEX
SHEET NUMBER	SHEET TITLE
CO.1	INDEX SHEET
CO.2	LEGEND SHEET
CO.3	EXISTING CONDITIONS AND DEMO PLAN
C3.0	SOIL EROSION PLAN PHASE 1 - NORTH
C3.1	SOIL EROSION PLAN PHASE 1 - SOUTH
C3.2	SOIL EROSION PLAN PHASE 2 - NORTH
C3.3	SOIL EROSION PLAN PHASE 2 - SOUTH
C3.4	SOIL EROSION PLAN PHASE 3 - NORTH
C3.5	SOIL EROSION PLAN PHASE 3 - SOUTH
C3.6	SOIL EROSION PLAN PHASE 4 - NORTH
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C3.8	SOIL EROSION PLAN PHASE 5 - NORTH
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C3.12	SOIL EROSION NOTES
C3.13	SOIL EROSION CONTROL DETAILS 1 OF 2
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C4.0	ENLARGED VIEW — BASIN 1
C4.1	ENLARGED VIEW — BASIN 2
C4.2	ENLARGED VIEW — BASIN 3
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C4.4	GRADING AND DRAINAGE DETAILS



**GE2 BATTERY PLANT** BLUE OVAL SK BATTERY PARK

**BATTERY PLANT** 

GLENDALE

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001



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A/E PROJECT NUMBER: GAF2002-01H SHEET TITLE

INDEX SHEET

SHEET NUMBER

<u>PROPOSED</u> **EXISTING** CABLE TV CABLE TV POLE CABLE TV PEDESTAL OVERHEAD CABLE TELEVISION UNDERGROUND CABLE TELEVISION ——UCTV———UCTV———UCTV——— **ELECTRICAL** CIRCUIT BREAKER PANEL HANDHOLE MANHOLE OUTLET PEDESTAL TRANSFORMER BOX METER POWER POLE TRANSFORMER TOWER OVERHEAD ELECTRIC UNDERGROUND ELECTRIC \_\_\_\_UE\_\_\_\_UE\_\_\_\_UE\_\_\_\_UE\_\_\_\_ VENT BLOW OFF FILLER PIPE MANHOLE METER STOP BOX SHUTOFF VALVE GAS <u>MONUMENTS</u> IRON (FOUND) IRON (SET) BENCH MARK BRASS PLATE CONCRETE NAIL DRILL HOLE GOVERNMENT CORNER GPS MONUMENT IRON PIPE MONUMENT BOX MONUMENT MERE STONE NGS MONUMENT NAIL & TAG PINCH IRON PK NAIL RAILROAD SPIKE RIGHT-OF-WAY MARKER SPIKE SHIPS SPIKE T-IRON USGS MONUMENT CROSS CUT CROSS CUT IN MONUMENT WOOD STAKE OVERHEAD UTILITIES DEADMAN ANCHOR FLOOD LIGHT GUY WIRE ANCHOR GUY POLE LAMP POLE METAL LIGHT POLE ORNAMENTAL LIGHT POLE BOX POWER & LIGHT POLE POWER & TELEPHONE POLE TELE, CTV, PWR & LIGHT POLE TELE, CTV, & POWER POLE TELE, & CTV POLE TELE, CTV, & LIGHT POLE TELE,. & LIGHT POLE TELE, POWER, & LIGHT POLE UTILITY POLE OVERHEAD CABLE TV & TELEPHONE ------CTV&T-----OVERHEAD ELECTRIC & CABLE TV ——E&CTV— OVERHEAD ELECTRIC, CABLE TV \_\_\_\_\_E&CTV&T\_\_\_\_\_ SANITARY SEWER CLEAN OUT PUMPSTATION MANHOLE SANITARY MANHOLE COMBINED SEWER MANHOLE SEPTIC TANK SEWER VENT FORCEMAIN SANITARY SEWER

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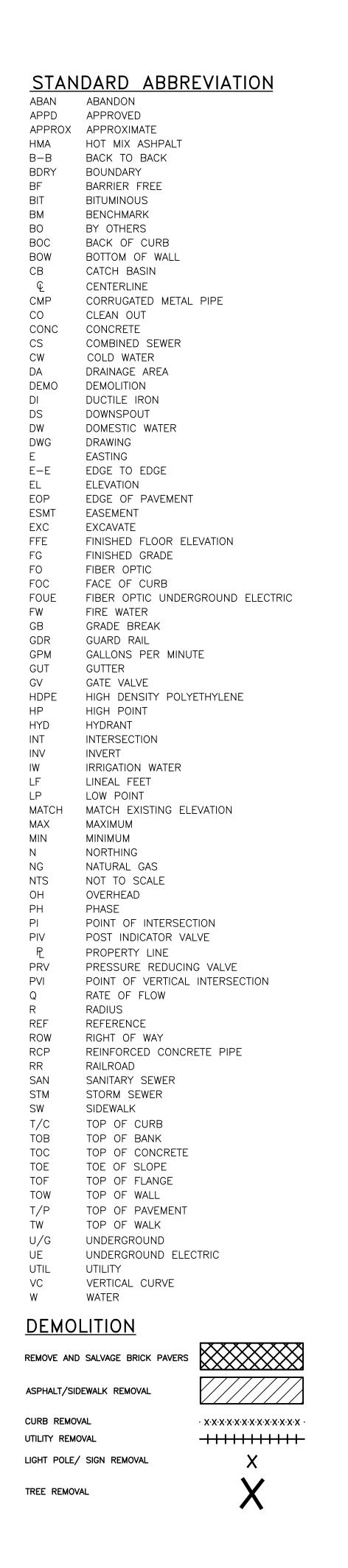
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	<b>EXISTING</b>	<u>PROPOSED</u>
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CONIFEROUS TREE		
DECIDUOUS BUSH	(B)	
DECIDUOUS TREE		
MULTI-STEM CONIFEROUS TREE	- Ams	
MULTI-STEM DECIDUOUS TREE STUMP	MS	
BRUSH LINE	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
EDGE OF WOODS		
HEDGE	······	
TREE ROW -	~\^ \\ \	
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BACKFLOW PREVENTER		000
BLOW-OFF VALVE		abla
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FIRE DEPARTMENT CONNECTION		<b>↑</b> ""
FIRE HYDRANT	Q	•
GATE VALVE & BOX	$\otimes$	€
GATE VALVE & WELL	$\oslash$	$\oslash$
INDICATOR VALVE POST	8	8
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SPRINKLER HEAD	O <sub>SH</sub>	REC
SPRINKLER JUNCTION BOX	■JB	
RECLAIM WATER -	REC	REC
BUILDING SETBACK  CHAIN LINK FENCE  FIELD	F F	
GARDEN -	GDGD	
GRAVEL – GUARDRAIL –		00000
LANDSCAPE -	I SI S	
ORNAMENTAL FENCE -		
PROPERTY LINE -		
RAILROAD TRACK CENTERLINE -	++++++++++++	
RIGHT OF WAY -	R/W	
SECTION LINE -		
SHORE LINE -		
SILT FENCE		<del>-//-//-//-</del>
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LANDSCAPING REMOVAL





GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK

**BATTERY PLANT** 

GLENDALE HARDIN K

Barton Malow GHAFARI



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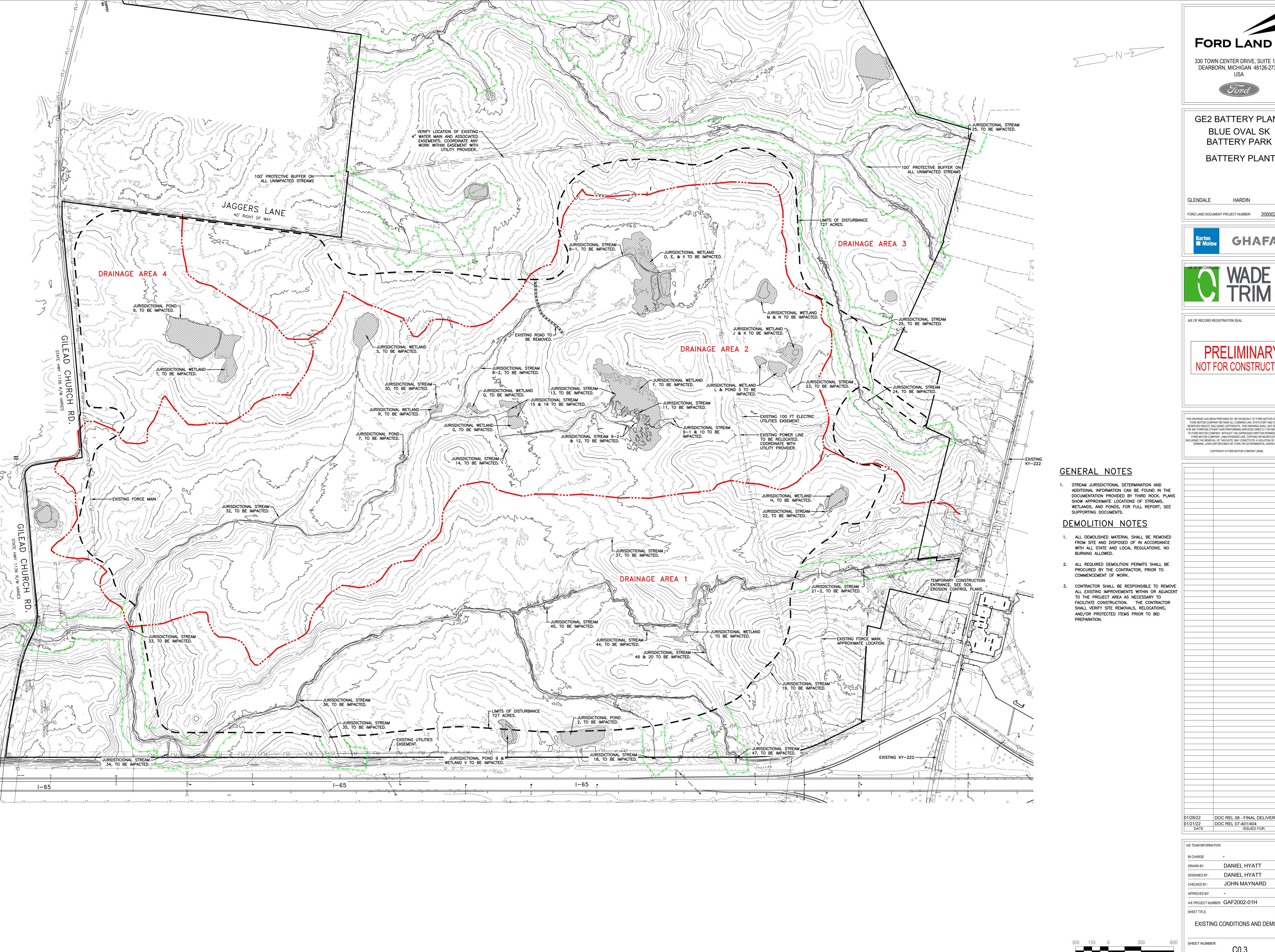


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FORD LAND

330 TOWN CENTER DRIVE, SUITE 1100 DEARBORN, MICHIGAN 48126-2738

**GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK** 

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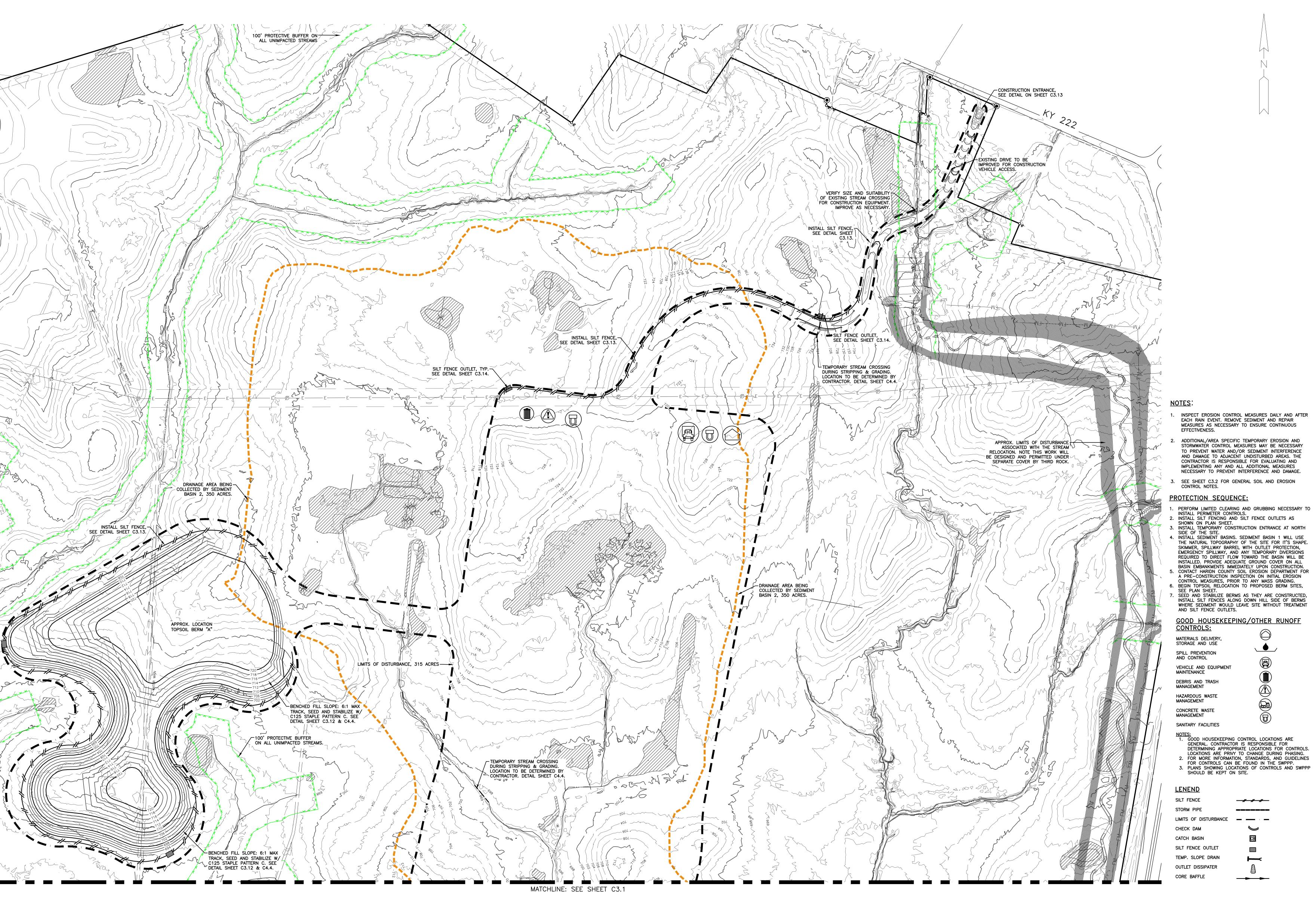
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**GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK** 

**BATTERY PLANT** 

**GLENDALE** FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001

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PERFORM LIMITED CLEARING AND GRUBBING NECESSARY TO INSTALL PERIMETER CONTROLS.
 INSTALL SILT FENCINE AND SILT FENCE OUTLETS AS

SHOWN ON PLAN SHEET.

INSTALL TEMPORARY CONSTRUCTION ENTRANCE AT NORTH SIDE OF THE SITE.

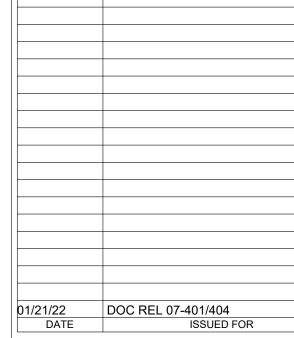
. INSTALL SEDIMENT BASINS. SEDIMENT BASIN 1 WILL USE THE NATURAL TOPOGRAPHY OF THE SITE FOR IT'S SHAPE.

CONTROL MEASURES, PRIOR TO ANY MASS GRADING. BEGIN TOPSOIL RELOCATION TO PROPOSED BERM SITES, 7. SEED AND STABILIZE BERMS AS THEY ARE CONSTRUCTED, INSTALL SILT FENCES ALONG DOWN HILL SIDE OF BERMS WHERE SEDIMENT WOULD LEAVE SITE WITHOUT TREATMENT AND SILT FENCE OUTLETS.

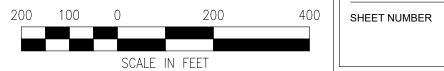
GOOD HOUSEKEEPING/OTHER RUNOFF

NOTES:

1. GOOD HOUSEKEEPING CONTROL LOCATIONS ARE GENERAL. CONTRACTOR IS RESPONSIBLE FOR DETERMINING APPROPRIATE LOCATIONS FOR CONTROLS.



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RBORN, MICHIGAN 48126-2738 USA

GE2 BATTERY PLANT
BLUE OVAL SK
BATTERY PARK
BATTERY PLANT

GLENDALE HARDIN

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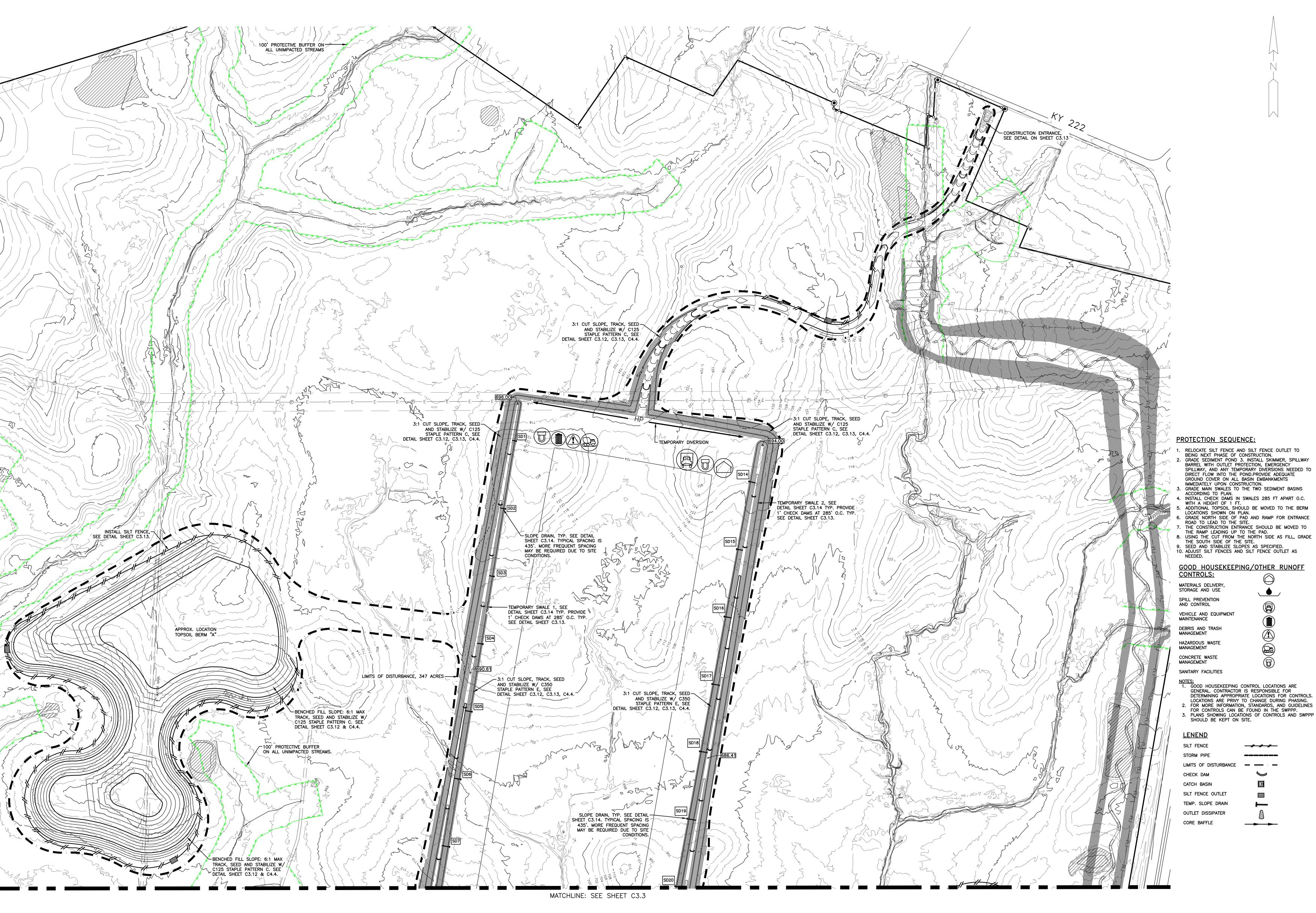
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**GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK** 

**BATTERY PLANT** 

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THE RAMP LEADING UP TO THE PAD.

8. USING THE CUT FROM THE NORTH SIDE AS FILL, GRADE THE SOUTH SIDE OF THE SITE.

9. SEED AND STABILIZE SLOPES AS SPECIFIED.

10. ADJUST SILT FENCES AND SILT FENCE OUTLET AS GOOD HOUSEKEEPING/OTHER RUNOFF

NOTES:

1. GOOD HOUSEKEEPING CONTROL LOCATIONS ARE GENERAL. CONTRACTOR IS RESPONSIBLE FOR DETERMINING APPROPRIATE LOCATIONS FOR CONTROLS. LOCATIONS ARE PRIVY TO CHANGE DURING PHASING.

2. FOR MORE INFORMATION, STANDARDS, AND GUIDELINES FOR CONTROLS CAN BE FOUND IN THE SWPPP.

3. PLANS SHOWING LOCATIONS OF CONTROLS AND SWPPP SHOULD BE KEPT ON SITE.

SILT FENCE OUTLET TEMP. SLOPE DRAIN OUTLET DISSIPATER

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SOIL EROSION PLAN PHASE 2 - NORTH

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DEARBORN, MICHIGAN 48126-2738

**GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK BATTERY PLANT** 

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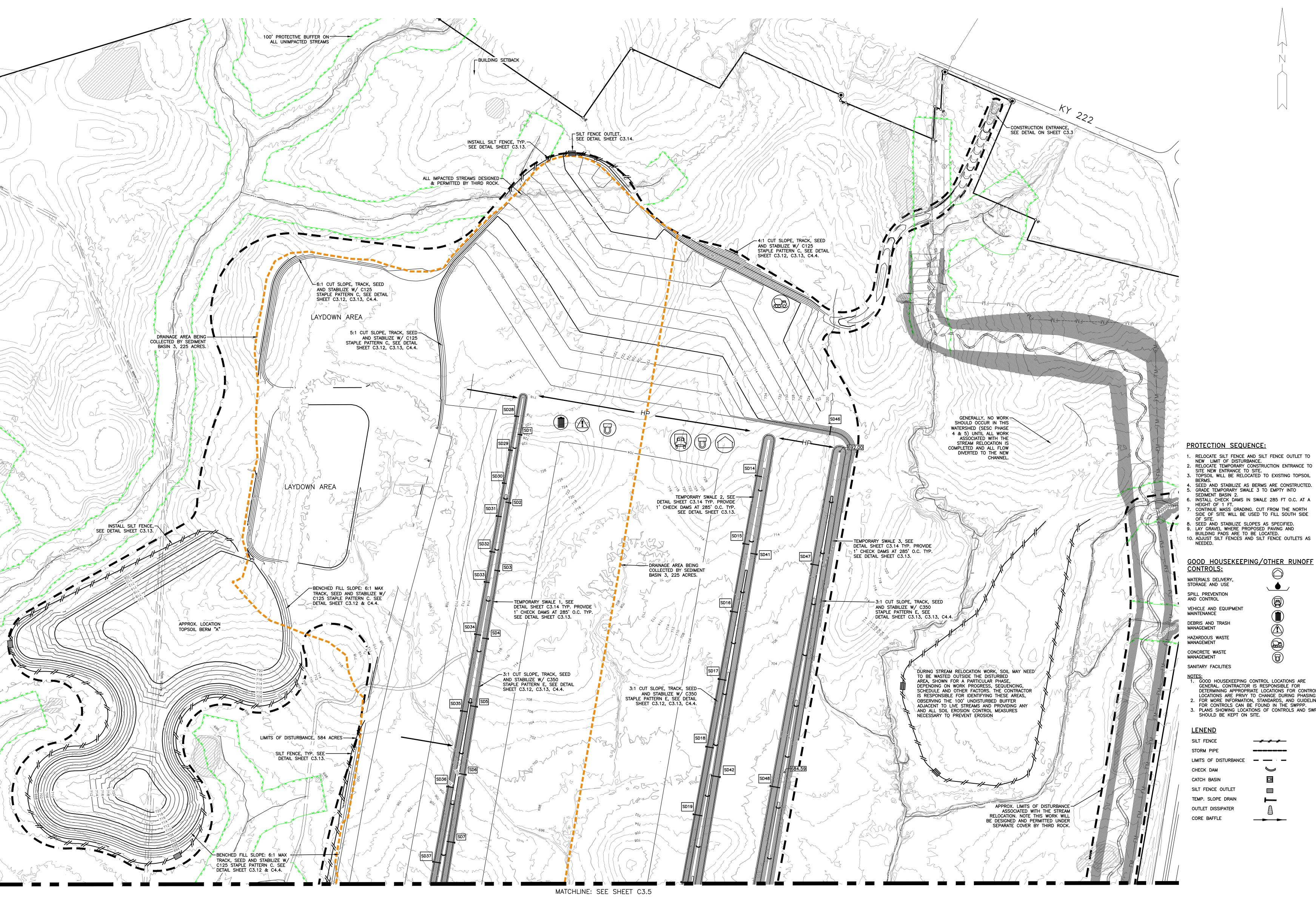
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**GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK** 

**BATTERY PLANT** 

**GLENDALE** FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001





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<del>-//-//-//-</del> LIMITS OF DISTURBANCE SILT FENCE OUTLET TEMP. SLOPE DRAIN OUTLET DISSIPATER

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Ford

GE2 BATTERY PLANT
BLUE OVAL SK
BATTERY PARK
BATTERY PLANT

GLENDALE HARDIN KY

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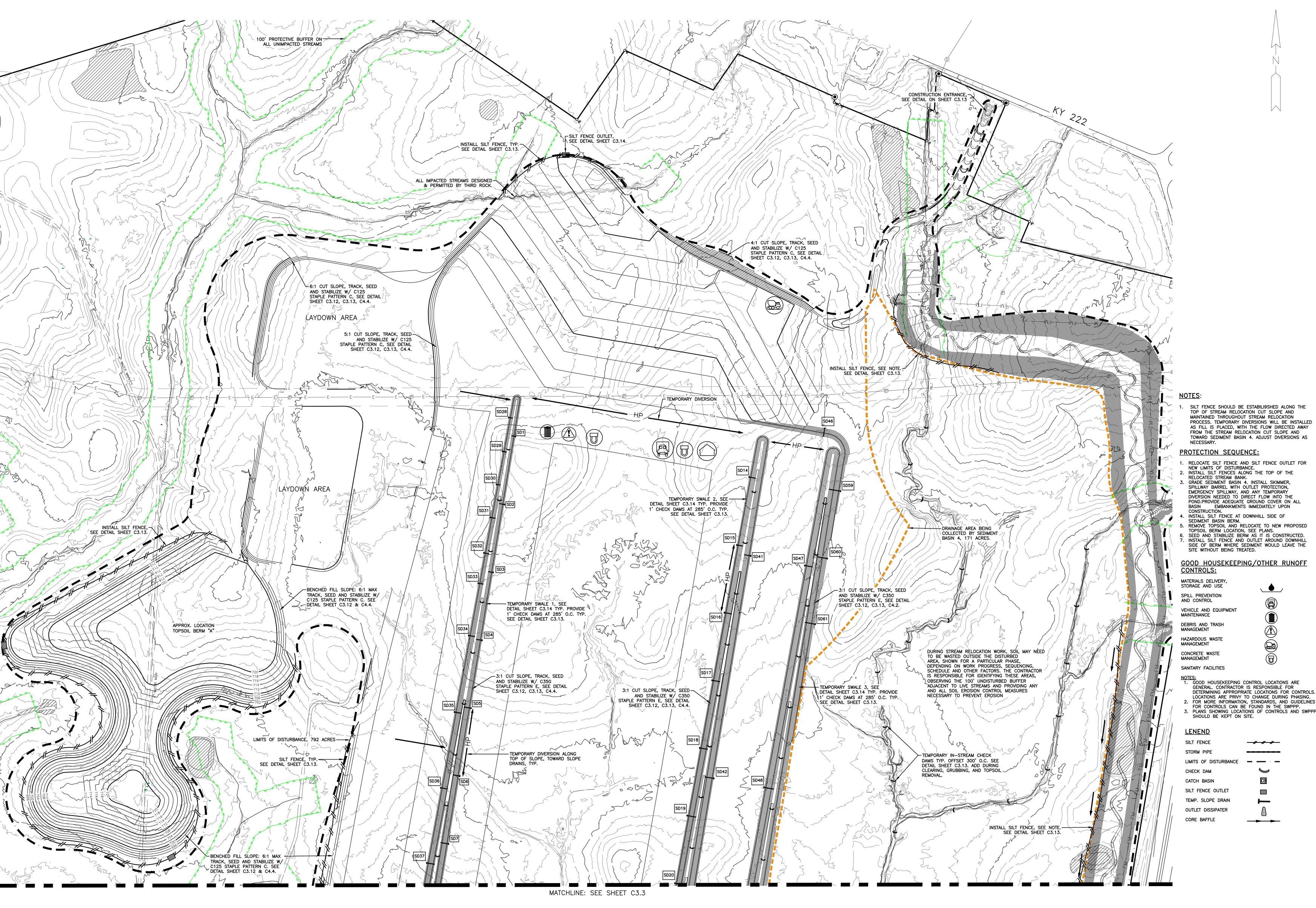
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SOIL EROSION PLAN PHASE 3 - SOUTH

0/00/0000 40 00 40 414

SHEET NUMBER





**GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK** 

**BATTERY PLANT** 

**GLENDALE** 

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. INSTALL SILT FENCE AND OUTLET AROUND DOWNHILL SIDE OF BERM WHERE SEDIMENT WOULD LEAVE THE SITE WITHOUT BEING TREATED. GOOD HOUSEKEEPING/OTHER RUNOFF

NOTES:

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<del>-//-//-//-</del> LIMITS OF DISTURBANCE SILT FENCE OUTLET TEMP. SLOPE DRAIN

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SOIL EROSION PLAN PHASE 4 - NORTH

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GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK

BATTERY PLANT

GLENDALE HARDIN KY

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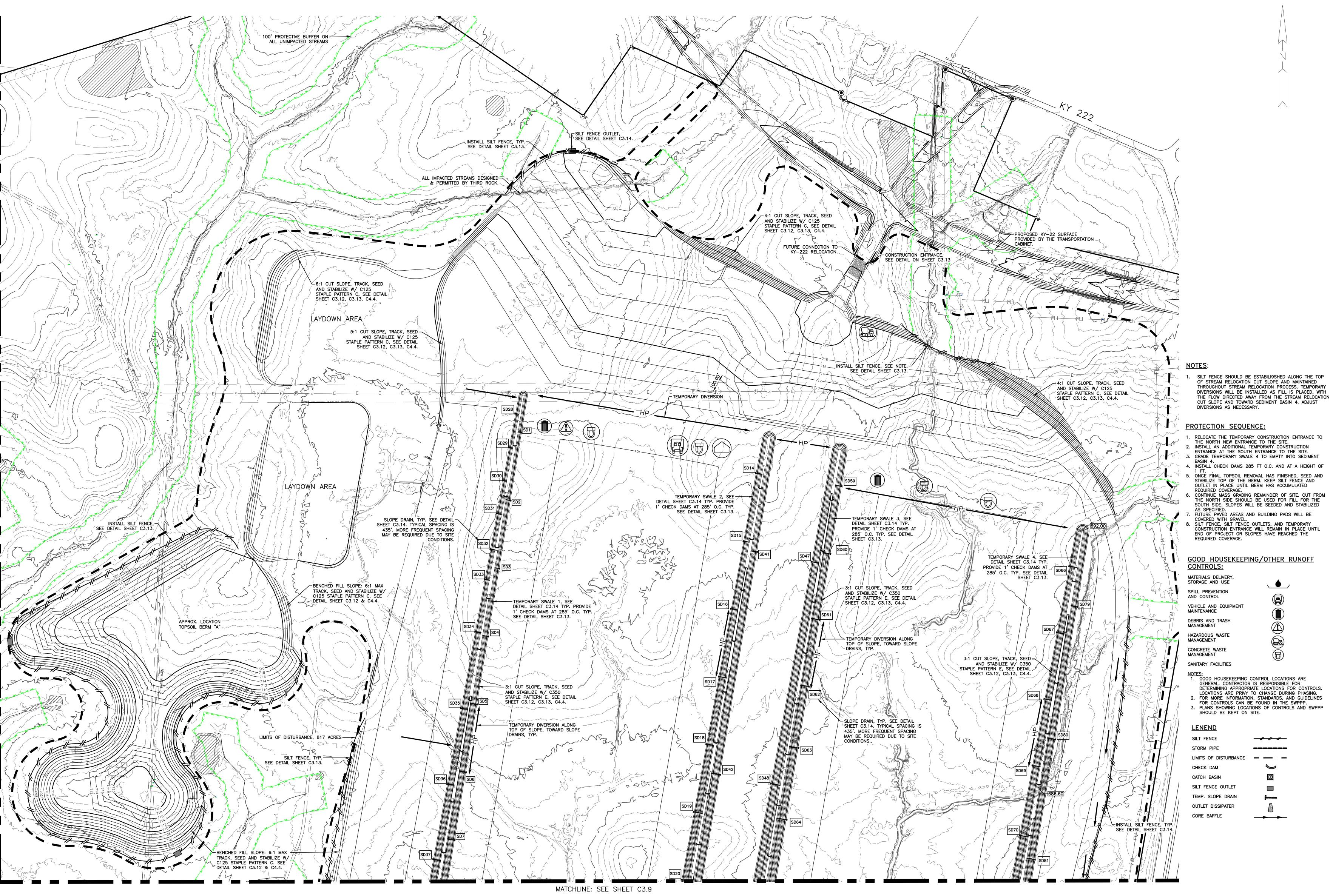
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APPROVED BY:	-
A/E PROJECT NUMBER:	GAF2002-01H
SHEET TITLE	
SOIL EROS	SION PLAN PHASE 4 - SOU
SHEET NUMBER	

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**GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK** 

**BATTERY PLANT** 

GLENDALE

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001





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GOOD HOUSEKEEPING/OTHER RUNOFF **CONTROLS:** 

MATERIALS DELIVERY, STORAGE AND USE SPILL PREVENTION AND CONTROL VEHICLE AND EQUIPMENT HAZARDOUS WASTE CONCRETE WASTE

NOTES:

1. GOOD HOUSEKEEPING CONTROL LOCATIONS ARE GENERAL. CONTRACTOR IS RESPONSIBLE FOR DETERMINING APPROPRIATE LOCATIONS FOR CONTROLS. LOCATIONS ARE PRIVY TO CHANGE DURING PHASING.
2. FOR MORE INFORMATION, STANDARDS, AND GUIDELINES FOR CONTROLS CAN BE FOUND IN THE SWPPP.

3. PLANS SHOWING LOCATIONS OF CONTROLS AND SWPPP SHOULD BE KEPT ON SITE.

SCALE IN FEET

SILT FENCE <del>-//-//-//-</del> STORM PIPE CHECK DAM CATCH BASIN SILT FENCE OUTLET TEMP. SLOPE DRAIN OUTLET DISSIPATER CORE BAFFLE

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01/28/22 DOC REL 08 - FINAL DELIVERABLE





GE2 BATTERY PLANT
BLUE OVAL SK
BATTERY PARK
BATTERY PLANT

GLENDALE HARDIN KY

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001

Barton GHAFARI



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GE2 BATTERY PLANT
BLUE OVAL SK
BATTERY PARK
BATTERY PLANT

GLENDALE HARDIN KY

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001





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DESIGNED BY: DANIEL HYATT

CHECKED BY: JOHN MAYNARD

APPROVED BY: A/E PROJECT NUMBER: GAF2002-01H

SHEET TITLE

SOIL EROSION PLAN PHASE 5 - SUBSTATION



<u>LENEND</u>

SILT FENCE

STORM PIPE

CHECK DAM

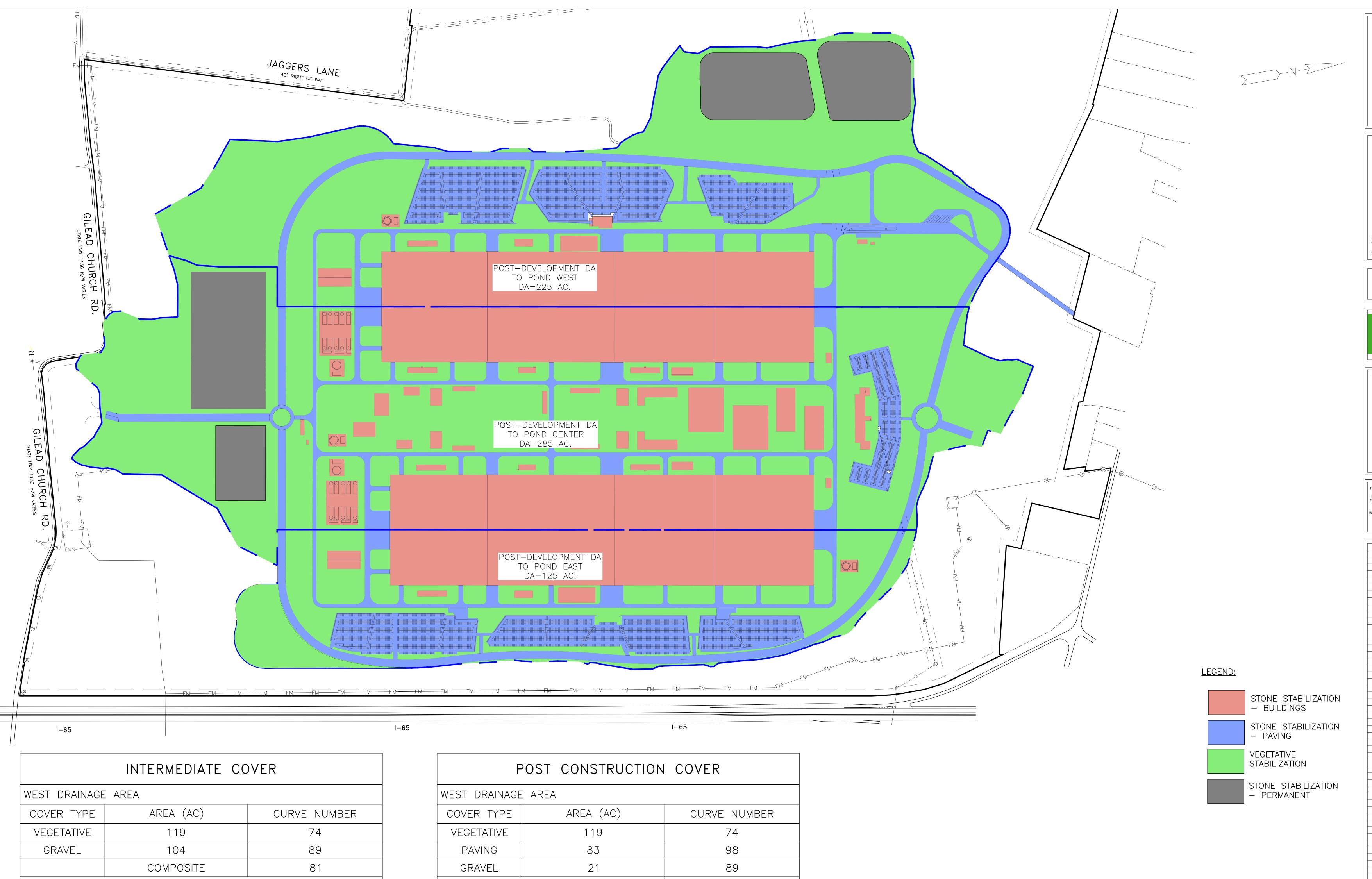
CATCH BASIN

SILT FENCE OUTLET
TEMP. SLOPE DRAIN

CORE BAFFLE

SHEET NUMBER
C3.10

0/00/0000 40 40 40 41



	INTERMEDIATE CO	VER	
WEST DRAINAGE	E AREA		
COVER TYPE	AREA (AC)	CURVE NUMBER	
VEGETATIVE	119	74	
GRAVEL	104	89	
	COMPOSITE	81	
CENTER DRAINA	AGE AREA		
COVER TYPE	AREA (AC)	CURVE NUMBER	
VEGETATIVE	141	74	
GRAVEL	GRAVEL 144		
	COMPOSITE	80	
EAST DRAINAGE	AREA		
COVER TYPE	AREA (AC)	CURVE NUMBER	
VEGETATIVE	44	74	
GRAVEL	77	89	
	COMPOSITE	85	

PC	ST CONSTRUCTIO	N COVER
WEST DRAINAGE A	AREA	
COVER TYPE	AREA (AC)	CURVE NUMBER
VEGETATIVE	119	74
PAVING	83	98
GRAVEL	21	89
	COMPOSITE	84
CENTER DRAINAGI	E AREA	
COVER TYPE	AREA (AC)	CURVE NUMBER
VEGETATIVE	141	74
PAVING	124	98
GRAVEL	20	89
	COMPOSITE	83
EAST DRAINAGE A	REA	•
COVER TYPE	AREA (AC)	CURVE NUMBER
VEGETATIVE	44	74
PAVING	77	98
	COMPOSITE	89



GE2 BATTERY PLANT BLUE OVAL SK BATTERY PARK

GLENDALE HARDIN KY

**BATTERY PLANT** 

Barton Malow GHAFARI



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STABILIZATION PLAN

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#### GENERAL EROSION NOTES

TRAILERS. AND TOILET FACILITIES.

SUPPRESSION OPERATIONS IS PROHIBITED.

CONSIDERED TO BE PART OF THIS PROJECT.

BUFFER ZONE NEAREST THE LAND DISTURBING ACTIVITY.

PERMANENTLY STABILIZED WITHIN 14 DAYS OF LAST LAND DISTURBING ACTIVITY.

- 1. THE STORM WATER POLLUTION PREVENTION PLAN IS COMPRISED OF THESE DRAWINGS ("SITE MAPS"), THE STANDARD DETAILS, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
- 2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION IF
- 4. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTÓR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- 5. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR
- REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- 6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

DEEMED NECESSARY RESULTANT FROM THE CONTRACTORS OPERATIONS, METHODS, OR SEQUENCE OF CONSTRUCTION.

- 7. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE
- 8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR
- 9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- 10. DUST ON THE SITE SHALL BE CONTROLLED THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST
- 11. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR
- 12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS SITE MAP, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
- 13. ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3:1 SHALL BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 7 DAYS OF LAST LAND DISTURBING ACTIVITY. ALL OTHER DISTURBED AREAS SHALL BE TEMPORARILY OR
- 14. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.
- 15. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- 16. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- 17. ON-SITE & OFFSITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- 18. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- 19. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
- 20. NO WORK TO BE PERFORMED IF RAINING OR THREATENING RAIN, UNLESS INSPECTOR IS ON SITE. CONTRACTOR TO HAVE RAINFALL GAUGE ON-SITE DURING CONSTRUCTION & RECORD RAINFALL
- 21. CONTRACTOR TO HAVE GROUND COVER ACQUIRED/READY/STOCKPILED AND TO BE INSTALLED WITHIN 14 CALENDAR DAYS OF FINAL GRADING.
- 22. WEEKLY INSPECTIONS OF THE SOIL EROSION AND SEDIMENTATION CONTROL DEVICES AND MEASURES SHALL BE PERFORMED BY THE SITE CONTRACTOR UNTIL THE SITE IS ESTABLISHED AND STABILIZED. INSPECTIONS SHALL ALSO BE CONDUCTED BY THE CONTRACTOR WITHIN 24 HOURS OF A 0.5-INCH RAINFALL EVENT.
- 23. ALL EXISTING PERIMETER FENCE TO BE REMOVED AFTER SLOPES ARE STABILIZED, AS APPROVED BY CITY INSPECTOR
- 24. MASS SITE GRADING AND EXISTING FOUNDATION REMOVAL CANNOT BEGIN PERIMETER CONTROLS, DIVERSIONS, SILT FENCES, AND SEDIMENT BASINS HAVE BEEN COMPLETED, AND SESC/SWPP APPROVED SOIL EROSION PLAN CONTROLS ARE INSTALLED AND INSPECTED.
- 25. DURING DEVELOPMENT OF THE SITE, THE PERSON RESPONSIBLE FOR THE LAND DISTURBING ACTIVITY SHALL INSTALL AND MAINTAIN ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENTATION CONTROL MEASURES AS REQUIRED BY THE APPROVED PLAN.
- 26. IF FILL MATERIALS ARE BEING BROUGHT ONTO THIS PROPERTY OR IF WASTE MATERIALS ARE TAKEN FROM THIS PROJECT. THIS INFORMATION MUST BE DISCLOSED AND SHOWN ON THE EROSION CONTROL AND GRADING PLAN. BORROW AREAS AND DUMP SITES ARE
- 27. IN AN EFFORT TO MINIMIZE EROSION AND EXPOSURE TIME. EASEMENT AREAS SHALL NOT BE GRUBBED OR GRADED UNTIL UTILITIES ARE READY TO BE INSTALLED. THE IMMEDIATE SEEDING OF DISTURBED EASEMENT AREAS AFTER UTILITIES ARE INSTALLED WILL ALSO ELIMINATE
- MANY PROBLEMS. EASEMENT AREAS WHICH CROSS OR ARE ADJACENT TO WATERCOURSES SHOULD RECEIVE SPECIAL CONSIDERATION. 28. NO LAND DISTURBING ACTIVITY SHALL BE PERMITTED IN PROXIMITY TO A LAKE OR NATURAL WATERCOURSE UNLESS A BUFFER ZONE IS PROVIDED ALONG THE MARGIN OF THE WATER BODY OF SUFFICIENT WIDTH TO CONFINE VISIBLE SILTATION WITHIN THE 25% OF THE
- 29. SIDE DITCHES 2% OR STEEPER SHALL BE RIP-RAPPED; OR SEEDED AND STABILIZED WITH EXCELSIOR MATTING (OR OTHER APPROVED

MATERIAL); OR STABILIZED BY ANY OTHER METHOD APPROVED BY THE SOIL EROSION CONTROL INSPECTOR.

- 30. IF A PERMANENT POND IS USED AS A SEDIMENT CONTROL DEVICE, OR DESIGNATED AS A PERMANENT WATER QUALITY POND, IT MUST BE CLEANED OF SEDIMENT WHEN HALF FULL. IT MUST ALSO BE CLEANED OUT TO DESIGN VOLUME; ENGINEERING CERTIFICATION OF COMPLETION SUBMITTED, AND FINAL INSPECTION PERFORMED BY AHJ STAFF BEFORE THE GRADING PERMIT IS FINALIZED.
- 31. CONSTRUCTION ACTIVITIES DISTURBING ONE OR MORE ACRES WILL BE ISSUED A NPDES STORM WATER DISCHARGE PERMIT AS REQUIRED BY THE FEDERAL CLEAN WATER ACT. SECTION B OF THIS PERMIT REQUIRES THE PERMITEE TO PERIODICALLY INSPECT ALL SEDIMENT & EROSION CONTROL DEVICES, AND TO KEEP A RECORD OF THESE INSPECTIONS.
- 32. THE ANGLE FOR GRADED SLOPES SHALL BE NO GREATER THAN THE ANGLE THAT CAN RETAIN VEGETATIVE COVER OR OTHER ADEQUATE EROSION CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY OR PERMANENT GROUNDCOVER. DEVICES. OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
- 33. THE OWNER(S) IS RESPONSIBLE FOR THE LONG TERM MAINTENANCE OF GROUNDCOVER ON THE PROPERTY. GROUNDCOVER MUST BE MAINTAINED TO A DEGREE THAT PREVENTS SOIL EROSION AND SEDIMENTATION AT ALL TIMES.
- 34. ACCEPTANCE AND APPROVAL OF THIS PLAN IS CONDITIONED UPON THE PROPERTY OWNER(S) COMPLIANCE WITH FEDERAL AND STATE WATER QUALITY LAWS, REGULATIONS, AND RULES. IN ADDITION, LOCAL TOWN OR COUNTY ORDINANCES OR RULES MAY ALSO APPLY TO THIS LAND DISTURBING ACTIVITY. THIS APPROVAL DOES NOT SUPERSEDE ANY OTHER PERMIT OR APPROVAL.

# STANDARD BPM NOTES

- BPM PLANS ARE TO GUIDE, ORGANIZE AND SCHEDULE RUNOFF CONTROLS AND SITE DEVELOPMENT WORK. THE BEST BPM PLANS REFLECT AND FORECAST CONTRACTOR NEEDS FOR CONTROLLING RUNOFF DURING GRADING, CLEARING, CONSTRUCTION AND SITE STABILIZATION. IT IS DIFFICULT TO PREDICT HOW A PROJECT MAY UNFOLD UNDER FIELD CONDITIONS. SOME AREAS SCHEDULED FOR WORK MIGHT NOT YET BE READY, AMONG OTHER CHALLENGES WHICH COULD RESULT IN CHANGES TO THE ORIGINAL BPM PLAN.
- IN ORDER TO ESTABLISH COME COMMON PRACTICES REGARDING CLEARING, GRADING, EVACUATION, AND FILL ACTIVITIES, THE INDIVIDUAL WHO PREPARES THE BPM PLAN SHOULD ADOPT A SYSTEM OF STANDARD NOTES. THESE NOTES WILL CONVEY IMPORTANT INFORMATION REGARDING HOW TO ACCOMMODATE COMMON SITUATIONS SUCH AS SOIL STOCK PILING, HEAVY RAINS, DE-WATERING, TEMPORARY SEDIMENT TRAPPING, ETC. THESE NOTES WILL ALSO PROVIDE CLEAR AUTHORITY FOR FIELD PERSONNEL TO IDENTIFY AND ACT UPON CONDITIONS THAT MAY REQUIRE IMMEDIATE ATTENTION SUCH AS SEVERE RUTTING ON SLOPES. THE FOLLOWING SERIES OF STANDARD NOTES SHOULD BE CONSIDERED FOR APPROPRIATE BPM PLANS.
- 1. THE BPM PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND-DISTURBING ACTIVITIES. SEDIMENT CONTROLS SUCH AS TRAPS AND SILT FENCES SHALL BE INSTALLED PRIOR TO LAND CLEARING, PLACEMENT OF FILL MATERIAL OR EXCAVATION.
- 2. WHEN DETENTION BASINS ARE USED. THEY SHALL BE CONSTRUCTED FIRST AND SHALL PERFORM AS SEDIMENT BASINS UNTIL THE CONTRIBUTING DRAINAGE AREA IS STABILIZED AND SEEDED. OUTLETS SHALL BE MODIFIED, IF NECESSARY, TO MAXIMIZE DETENTION AND SEDIMENT REMOVAL DURING CONSTRUCTION.
- 3. TEMPORARY SEDIMENT TRAPS WITH EARTHEN DIKES, ROCKS OR OTHER APPROVED CONTROLS SHALL BE INSTALLED DOWNGRADE OF HEAVILY ERODED AREAS AS NEEDED IN ORDER TO PREVENT SEDIMENT FROM LEAVING SITE.
- 4. ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF SOIL. ROCK AND MUD FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. ROCK AND SOIL THAT HAS REACH ROADWAY MUST BE CLEARED DAILY.
- 5. SOIL STOCKPILES SHALL BE LOCATED AWAY FROM PONDS, STREAMS, CATCH BASINS AND SWALES. SEED, MULCH AND PROPERLY CONTAIN STOCKPILES THROUGH USE OF SILT FENCE.
- 6. ALL STREAM CROSSINGS ARE REQUIRED TO UTILIZE LOW-WATER CROSSING STRUCTURES PROPERLY DESIGNED AND AUTHORIZED UNDER A U.S. ARMY CORPS OF ENGINEERS CWA SECTION 404 PERMIT.
- 7. ALL SEDIMENT-LADEN WATER ENCOUNTERED DURING BORING, TRENCHING AND OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAP AND CLEANED PRIOR TO BEING DISCHARGED. DISCHARGES TO STORM DRAINS, WATER BODIES OR DITCHES MUST BE COVERED BY A KPDES GENERAL PERMIT.
- 8. ANY BARE SOIL AREAS THAT ARE NOT SUBJECT TO ACTIVE GRADING, CLEARING, FILL ACTIVITIES OR EXCAVATION SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT SEEDING/MULCHING WITHIN 14 DAYS IF NO WORK IS PLANNED IN THAT AREA OVER THE NEXT WEEK.
- 9. ALL AREAS IDENTIFIED AS CRITICAL HABITAT, WETLAND, SINKHOLE, PERMANENT NATIVE VEGETATION, STREAM OR STREAM BUFFER SHALL BE FLAGGED AS OFF LIMITS TO VEHICLES AND EQUIPMENT, UNLESS SPECIFIED AS IMPACTED.
- 10. CONSTRUCTION AREA SHALL BE KEPT GENERALLY CLEAN: PRACTICES SHALL BE APPLIED TO PREVENT CONTAMINATED RUNOFF AND OTHER IMPACTS FROM PAINT, CONCRETE WASTES, TRASH, FUELS, OILS, ETC.
- 11. DITCH CHECKS, NON-PERMANENT SEDIMENT TRAPS, SILT FENCE, AND OTHER TEMPORARY CONTROLS SHALL BE REMOVED AFTER VEGETATION IN UPGRADE AREAS IS ESTABLISHED AND DITCHES ARE STABLE.
- 12. MEASURES SHALL BE APPLIED TO RESPONSIBLY HANDEL MATERIALS THROUGHOUT CONSTRUCTION. CONSIDER STORAGE, VEHICLE FUELING SPILL RESPONSES AND WASTE MANAGEMENT PRACTICES WHICH ENSURE RUNOFF FROM SITE IS FREE OF CONTAMINANTS

#### **MAINTENANCE**

BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT. WHICHEVER IS MORE STRINGENT. AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

ALL MEASURES STATED ON THIS SITE MAP. AND IN THE STORM WATER POLLUTION PREVENTION PLAN. SHALL

- 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR DETERIORATION.
- 2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.
- 3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
- 4. THE CONSTRUCTION EXITS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION EXITS AS CONDITIONS DEMAND.
- 5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AREA AS CONDITIONS DEMAND (SEE MOVE-ON / TEMPORARY CONSTRUCTION FACILITIES PLANS).
- 6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50%.
- 7. REFER TO THE KENTUCKY SWPP/SESC MANUAL FOR ADDITIONAL MAINTENANCE REQUIREMENTS.

SOIL EROSION/SEDIMENTA	TIC	NC	C	NC	TR	OL	0	PE	RA	TIC	N	TI	ΜE	S	CH	ED	)UL	E.
NOTE: GENERAL CONTRACTOR TO CO	OMP	LETI	Ξ ΤΑ	BLE	E WI	TH	THE	IR S	SPE	CIFI	СР	ROJ	ECT	SC	HEC	ULE	Ξ	
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEF	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUI
TEMPORARY CONSTRUCTION EXITS																		
TEMPORARY CONTROL MEASURES																		
SEDIMENT CONTROL BASINS																		
STRIP & STOCKPILE TOPSOIL																		
ROUGH GRADE																		
STORM FACILITIES																		
SITE CONSTRUCTION																		
PERMANENT CONTROL STRUCTURES																		
FOUNDATION/BUILDING CONSTRUCTION																		
FINISH GRADING																		
LANDSCAPING/SEED/FINAL STABILIZ.																		

TEMPORARY SEEDING SCHEDULE					
MARCH 1 TO OCTOBER 31	PER 1,000 SF	PER ACRE			
OATS	3 LBS	120 LBS			
PERENNIAL RYEGRASS	1 LBS	40 LBS			
TALL FESCUE	1 LBS	40 LBS			
WHEAT	3 LBS	120 LBS			
ANNUAL RYE	3 LBS	120 LBS			
NOVEMBER 1 TO FEBRUARY 28	PER 1,000 SF	PER ACRE			
ANNUAL RYE	3 LBS	120 LBS			
WHEAT	3 LBS	120 LBS			
PERENNIAL RYEGRASS	1 LBS	40 LBS			
TALL FESCUE	3 LBS	120 LBS			

RECOMMENDED SEEDING RATES								
SEEDING SPECIES & MIXTURES	SEEDING RATE/ACRE	PER 1000 SQ FT	SOIL PH					
SEED AND SEED MIXTURES FOR RELATIVELY FLAT OR SLIGHTLY SLOPING AREAS								
PERENNIAL RYEGRASS	25-35 LBS	1 LB	5.6-7.0					
+ TALL FESCUE	+ 15-30 LBS	+ 1 LB						
TALL FESCUE	40-50 LBS	1.5 LB	_					
+ LADINO OR WHITE CLOVER	+ 1-2 LBS	+ 2 OZ						
STEEP SLOPES, BANKS, CUTS, A	AND OTHER LOW MA	AINTENANCE AREAS (NOT I	MOWED)					
BIG BLUESTEM	25-35 LBS	1 LB	5.5-7.5					
+ RED CLOVER	+ 10-20 LBS	+ 0.5 LB						
TALL FESCUE	40-50 LBS	1 LB	5.5-7.5					
+ WHITE OR LADINO CLOVER	+ 1-2 LBS	+ 2 OZ						
ORCHARDGRASS	20-30 LBS	1 LB	5.6-7.0					
+ RED CLOVER	+ 10-20 LBS	+ 0.5 LB						
+ LADINO CLOVER	+ 1-2 LBS	+ 2 OZ						
SILVER PLUMEGRASS	10-12 LBS	0.25 LB	5.6 TO 7.0					
+ TALL FESCUE	+ 20-30 LBS	+ 1 LB						
LAWN AND OTHER HIGH TR	RAFFIC OR HIGH	MAINTENANCE AREAS	(MOWED)					
BLUEGRASS	105-140 LBS	3 LBS	5.5-7.0					
PERENNIAL RYEGRASS (TURF)	45-60 LBS	2 LB	5.5-7.0					
+ BLUEGRASS	+ 79-90 LBS	+ 2.5 LB						
CHANNELS AND OTHER ARI	EAS OF CONCEN	TRATED WATER FLOWS	5					
PERENNIAL RYEGRASS	100-150 LBS	3 LB	5.6-7.0					
+ WHITE OR LADINO CLOVER	+ 1-2 LBS	+ 2 OZ						
KENTUCKY BLUEGRASS + BIG BLUESTEM + SWITCHGRASS + TIMOTHY + PERENNIAL RYEGRASS + WHITE OR LADINO CLOVER	20 LBS + 10 LBS + 3 LBS + 4 LBS + 10 LBS + 1-2 LBS	0.5 LB + 0.25 LB + 2 OZ + 0.25 LB + 0.25 LB + 2 OZ	5.5–7.5					
TALL FESCUE	100-150 LBS	3 LB	5.5-7.5					
+ LADINO OR WHITE CLOVER	+ 1-2 LBS	+ 2 OZ						
TALL FESCUE	100-150 LBS	3 LB	5.5-7.5					
+ PERENNIAL RYEGRASS	+ 15-20 LBS	+ 0.5 LB						
+ KENTUCKY BLUEGRASS	+ 15-20 LBS	+ 0.5 LB						

KENTUCKY TRANSPORTATION CABINET SEED MIXES			
MIXTURE TYPE SEED MIXTURE			
MIXTURE NO.1	75% KENTUCKY 31 TALL FESCUE		
	10% RED TOP		
	5% WHITE DUTCH CLOVER		
	10% RYEGRASS (PERENNIAL)		
MIXTURE NO.3	30% KENTUCKY 31 TALL FESCUE		
	15% RED TOP		
	15% PARTRIDGE PEA		
	20% LITTLE BLUESTEM		
	10% WHITE DUTCH CLOVER		
	10% RYEGRASS		

#### PERMANENT SEEDING SPECIFICATIONS

#### **DEFINITION**

<u>PURPOSE</u>

SEEDING DISTURBED AREAS WITH PERENNIAL GRASSED AND/OR LEGUMES TO PROVIDE A PERMANENT VEGETATIVE COVER TO LESSEN RUNOFF AND SOIL EROSION.

# CONDITIONS WHERE PRACTICE APPLIES

ALL BARE SOIL AREAS ON CONSTRUCTION SITES WHICH ARE NOT COVERED BY STRUCTURES, PAVING SYSTEMS OR OTHER

TO LESSEN SOIL EROSION AND PERMANENTLY STABILIZE DISTURBED AREAS CREATED BY GRADING OF CONSTRUCTION

EROSION CONTROL DEVICES.

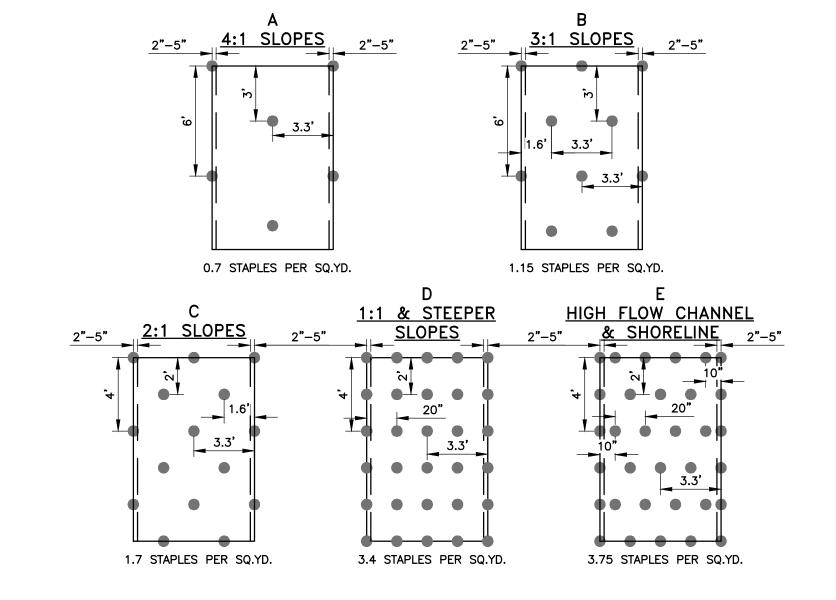
#### <u>PREPARATION</u>

PREPARE SEEDBED BY RIPPING, CHISELING, HARROWING, OR PLOWING TO DEPTH OF SIX INCHES SO AS TO PRODUCE A LOOSE, FRIABLE SURFACE. REMOVE ALL STONES, BOULDERS, STUMPS, OR DEBRIS FROM THE SURFACE WHICH WOULD PROHIBIT GERMINATION OF PLANT GROWTH.

INCORPORATE INTO THE SOIL 800 TO 1,000 POUNDS OF 10-10-10 FERTILIZER PLUS 500 POUNDS OF 20% SUPERPHOSPHATE PER ACRE & TWO TONS OF DOLOMITIC LIME PER ACRE UNLESS SOIL TESTS INDICATE THAT A LOWER RATE OF LIME CAN BE USED.

MULCH AFTER SEEDING WITH 1.5 TONS OF GRAIN STRAW PER ACRE AND EITHER CRIMP STRAW INTO SOIL OR TACK WITH LIQUID ASPHALT AT 400 GALLONS PER ACRE OR EMULSIFIED ASPHALT AT 300 GALLONS PER ACRE. SELECT SEEDING MIXTURE FROM TABLE FOUND ON THIS SHEET.

	STABILIZATION TIMEFRAMES							
SITE AREA DESCRIPTION	STABILIZATION	TIMEFRAME EXCEPTIONS						
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE						
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE						
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED						
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH						
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES						



#### STAPLE PATTERN GUIDE SCALE: NOT TO SCALE

# MULCHING

# 1. RATES:

1.1. SEEDED AREAS 1.5-2.5 TONS/ACRE

- 1.2. UNSEEDED AREAS 2-3 TONS/ACRE
- 2. CONSTRUCTION SPECIFICATION AND APPLICATION: 2.1. MULCH APPLIED MORE THAN 2 IN. DEEP ON SEEDED SITES, UNLESS INCORPORATED IN TRACKING,
- DISKING, OR PUNCHING IN METHODS. OBTAIN CLEAN WHEAT, BARELY, OAT, OR RICE STRAW. AVOID MOLDY, COMPACTED STRAW.
- MUST BE EVENLY DISTRIBUTED AT UNIFORM DEPTH OF 2-4 INCHES. SOIL SURFACE SHOULD BE BARELY VISIBLE THROUGH STRAW MULCH. STEEP OR HIGH WINDS SITES MUST HAVE STRAW
- 2.4. MUSH BE ANCHORED IMMEDIATELY BY CRIMPING, TRACKING, DISKING, OR PUNCHING, COVERED WITH A NETTING MATERIAL, SPRAYING WITH ASPHALTIC/ORGANIC TACKIFIER, OR TACKING WITH CELLULOUS FIBER AT A RATE OF 750 LBS/ACRE.
- 2.5. NETTING MATERIAL MADE OF BIODEGRADABLE PAPER, PLASTIC OR COTTON. 2.6. POLYMER TRACKIFIERS APPLIED AT RATES OF 40-60 LB/AC, ORGANIC TRACKIFIERS AT A RATE OF 80-120 LBS/ACRE. LIQUID MULCH BINDERS SHOULD BE HEAVIER AT EDGES, IN VALLEYS, AND AT

# WOOD CHIPS OR BARK

CREST OF BANKS.

ANCHORED.

CONSTRUCTION AND APPLICATION:

2.1. EVENLY DISTRIBUTED ACROSS THE SOIL SURFACE AT A DEPTH OF 2-3 INCHES. 2.2. IF DECOMPOSITION, SOIL BUILDING, AND RE-VEGETATION ARE WANTED, INCREASE APPLICATION RATE OF NITROGEN FERTILIZER BY 20 LBS OF N/ACRE.

HYDRAULIC MULCH: RATE OF 1.5 TO 2 TONS/ACRE - MIXED WITH SEED AND FERTILIZER AT RECOMMENDED

- 1.1. 1.5 TO 2 TONS/ACRE MIXED WITH SEED AND FERTILIZER AS RECOMMENDED. 1.2. PAPER MULCH TO TACK/BIND STRAW MULCH - 750 LBS/ACRE.
- 2. MULCHES FROM WOOD AND PAPER FIBER ARE COMBINATION MULCHES COMPRISED OF 70% WOOD FIBER AND 30% PAPER FIBER, MANUFACTURED FROM LUMBER MILL WASTE, VIRGIN WOOD CHIPS, RECYCLED NEWSPRINT, OFFICE PAPER AND OTHER WASTE PAPER.
- 3. CONSTRUCTION SPECIFICATION AND APPLICATION: 3.1. MOISTURE CONTENT (TOTAL WEIGHT BASIS) NOT TO EXCEED 12% +/1 3%
- ORGANIC MATTER CONTENT (OVEN DRY WEIGHT BASIS) IS 98% MINIMUM. INORGANIC MATTER (ASH) CONTENT (OVEN DRIED BASIS) 2% MAXIMUM. ph at 3% consistently in water = 4.9.
- FIBER MUST BE DYED TO AID IN VISUAL METERING DURING APPLICATION. DYE MUST BE BIODEGRADABLE AND MUST NOT INHIBIT PLANT GROWTH.
- WATER HOLDING CAPACITY (OVEN DRIED BASIS) MINIMUM OF 1.0 gal/lb OF FIBER.

INSPECTION & MAINTENANCE: INSPECT WEEKLY AND REPAIR/REPLACE BARE AREAS. IF DONE PROPERLY LITTLE EXTRA MAINTENANCE WILL BE NEEDED DURING THE FIRST FEW MONTHS. AFTER HIGH WINDS. SIGNIFICANT RAINSTORMS. AREAS SHOULD BE CHECKED AND RE-MULCHED IF NEEDED. MULCH MUST LAST UNTIL VEGETATION DEVELOPS FOR PERMANENT EROSION RESISTANT COVER. STRAW MUST LAST FROM 6 MONTHS TO 3

# POLYACRYLAMIDES (PAM)

ONLY ANIONIC PAM SHOULD BE USED. **DESIGN RECOMMENDATIONS:** 

- 1. USE 25-FT SETBACKS WHEN APPLYING PAM NEAR NATURAL WATER BODIES. 2. PAM PERFORMANCE DECREASES WITH EXPOSURE TO ULTRAVIOLET LIGHT AND TIME.
- 3. IN CONCENTRATED FLOW CHANNELS, EFFECTIVENESS DECREASES. 4. MULCH TO PROTECT SEED IF APPLIED WITH PAM.
- 5. NEVER ADD WATER TO PAM. SLOWLY ADD PAM TO WATER. 6. USE PAM LOGS OR BLOCK FORMULATION FOR MONITORING.
- **CONSTRUCTION SPECIFICATIONS:**
- 1. USERS OF PAM SHOULD OBTAIN AND FOLLOW THE MATERIAL SAFETY DATA SHEET REQUIREMENTS AND MANUFACTURE'S RECOMMENDATIONS. ADDITIVES SHOULD BE NONTOXIC. SUPPLIER SHOULD PROVIDE WRITTEN APPLICATION METHODS AND INSTRUCTIONS FOR SAFETY, STORAGE, AND MIXING OF PRODUCT.

2. GEL BARS OR LOGS OF PAM MIXTURE CAN BE USED IN DITCH SYSTEMS. EFFECTIVENESS IS REDUCED IN

STEEPLY SLOPING DITCHES. 3. TO PREVENT EXCEEDING THE ACRYLAMIDE MONOMER LIMIT IN CASE OF A SPILL, PAM IN PURE FORM SHOULD NOT EXCEED 200 LBS/BATCH AT 0.05% ACRYLAMIDE MONOMER (AMD) OR 400 LBS/BATCH AT 0.025% AMD.



GE2 BATTERY PLAN

BATTERY PARK BATTERY PLANT

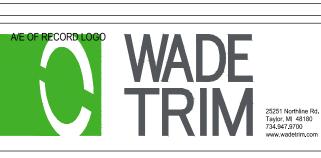
**BLUE OVAL SK** 

GLENDALE

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A/E PROJECT NUMBER: GAF2002-01H

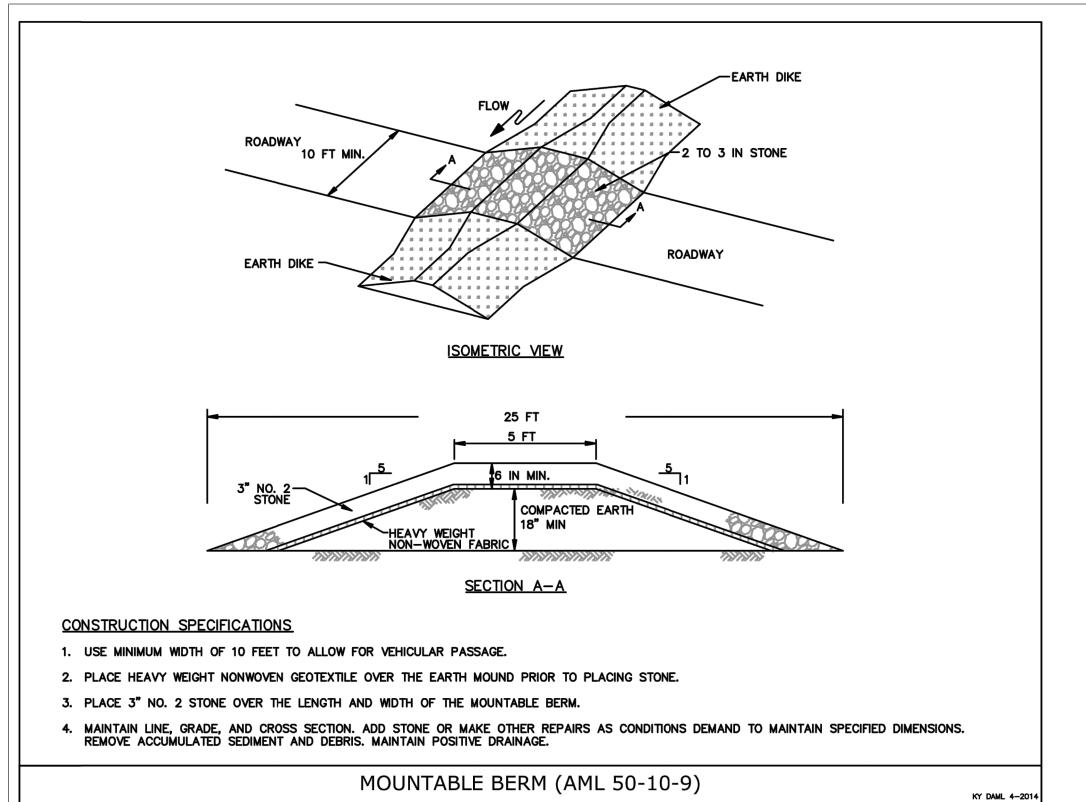
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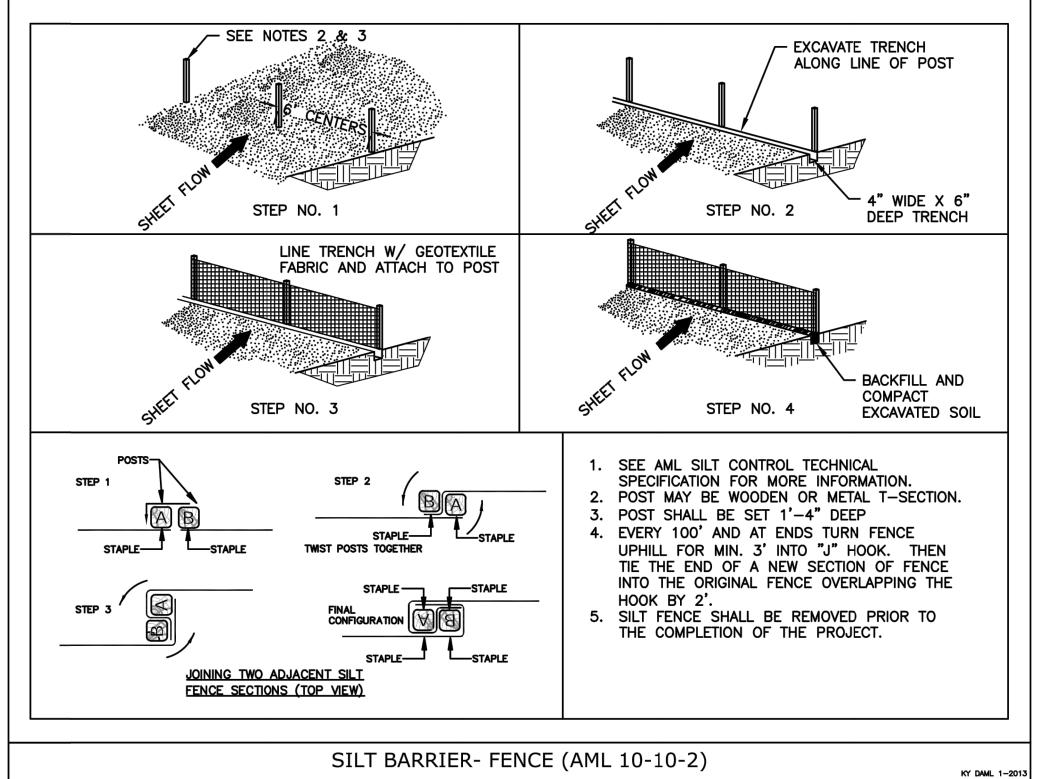
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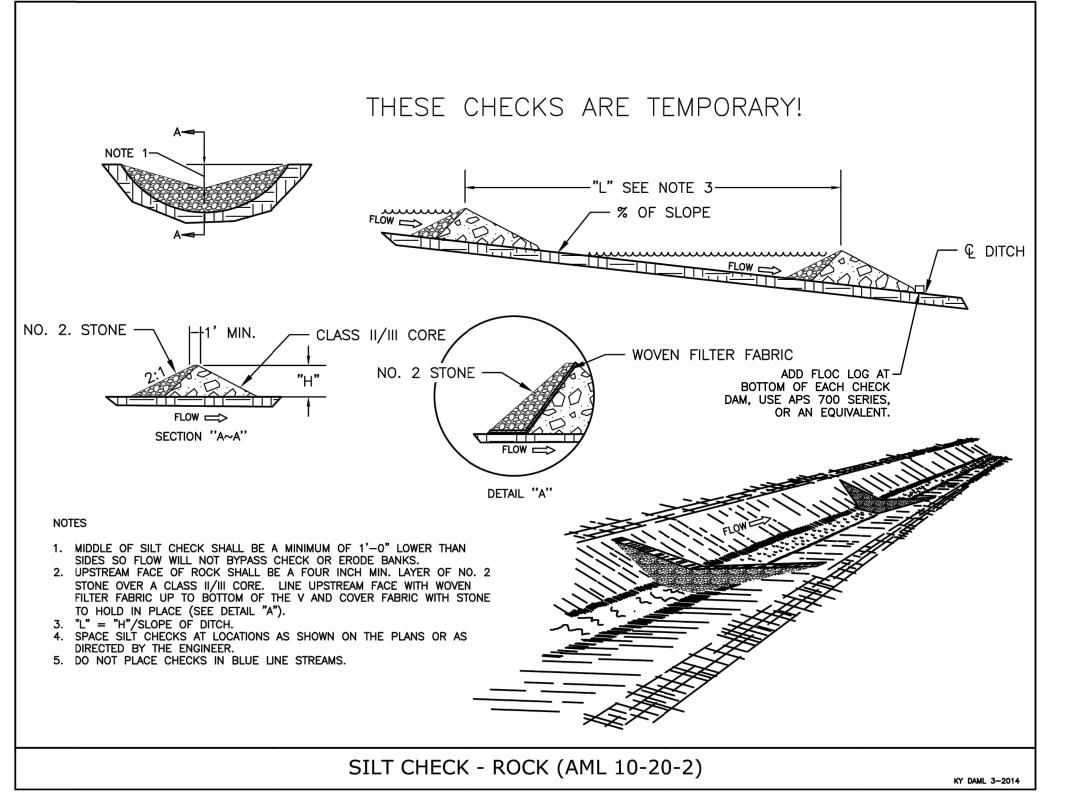
SOIL EROSION NOTES

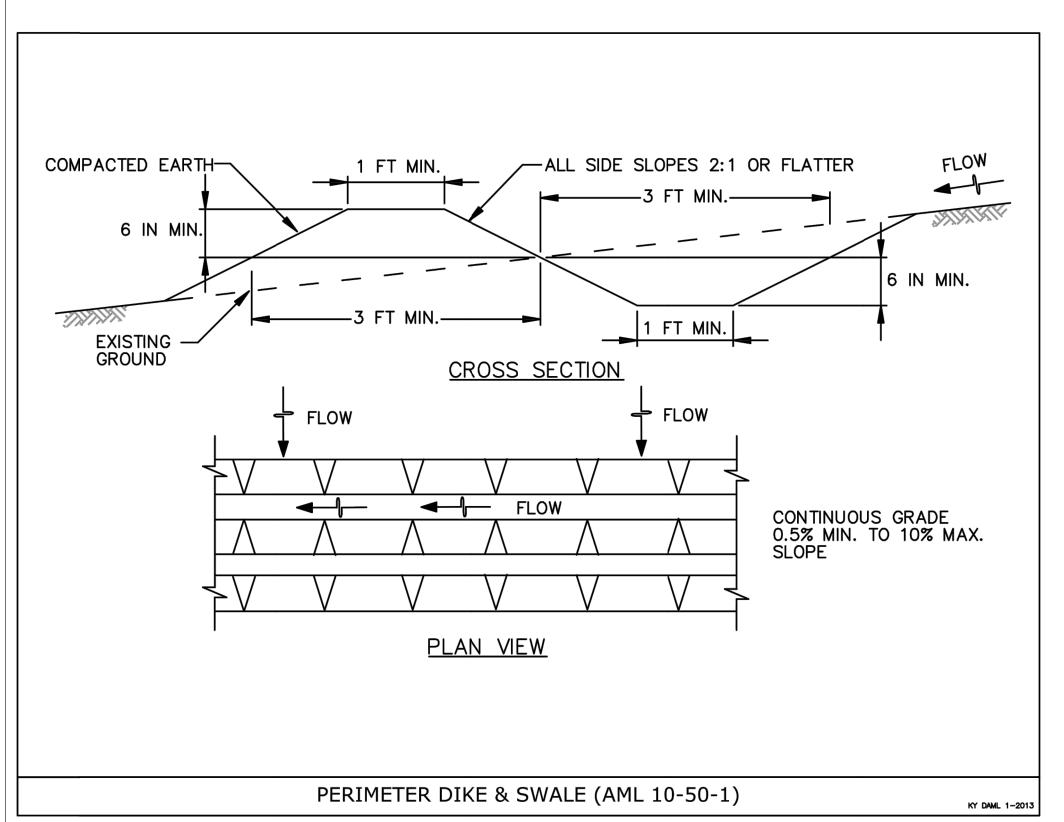
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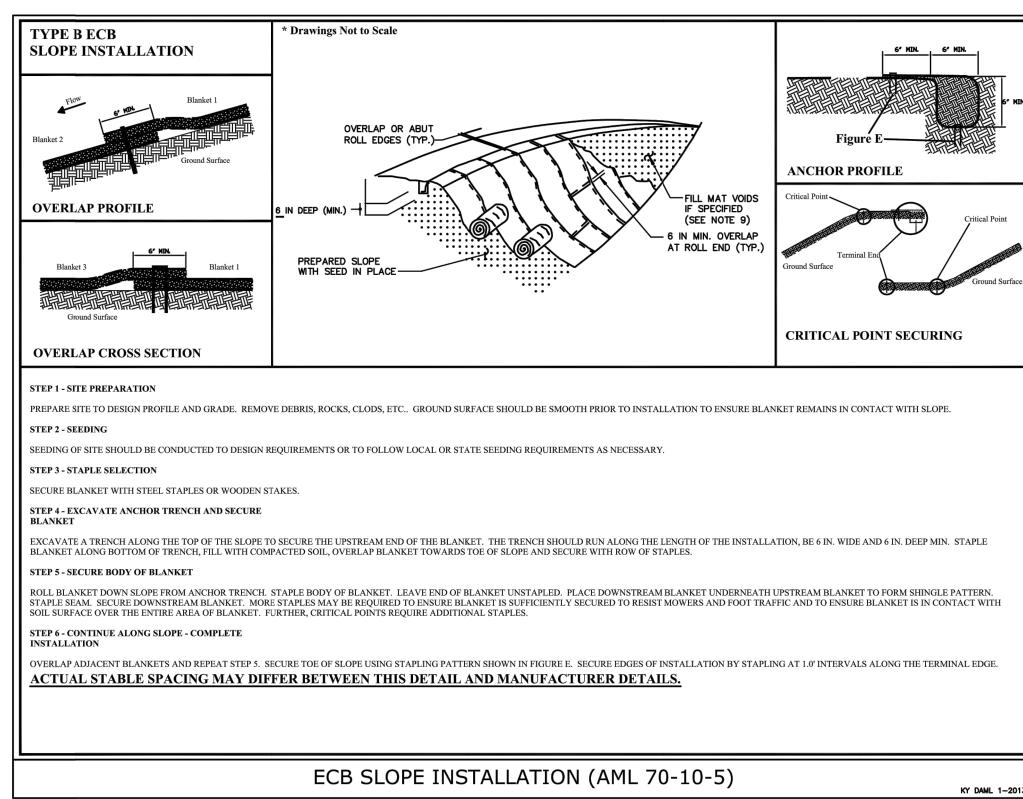
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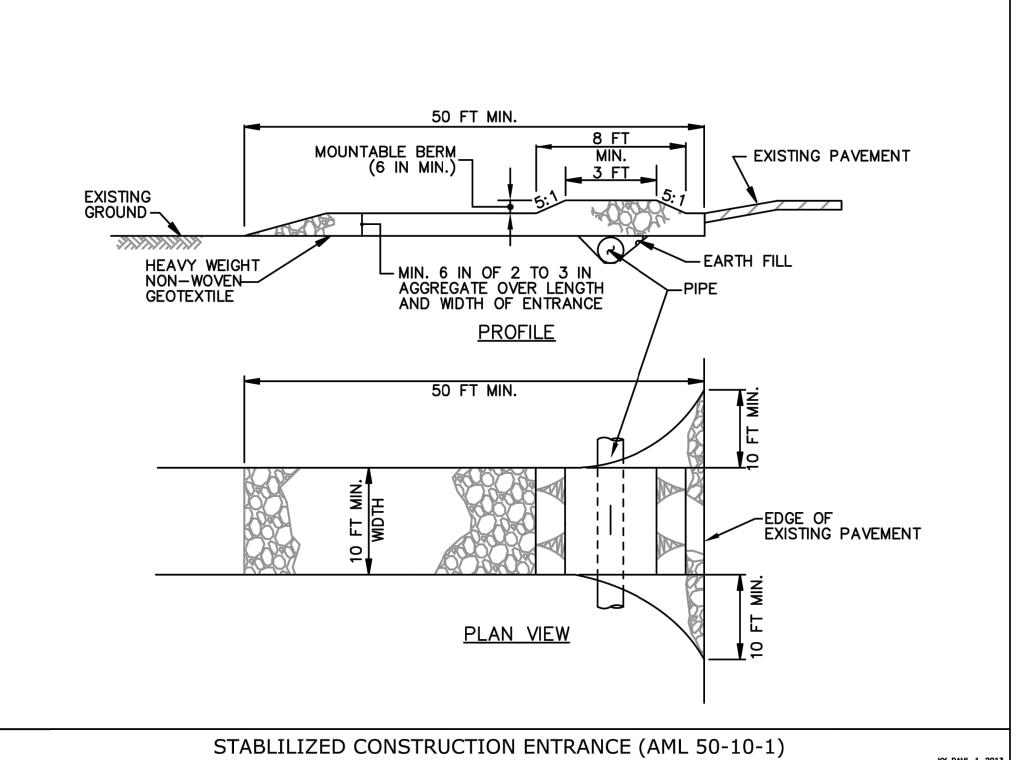


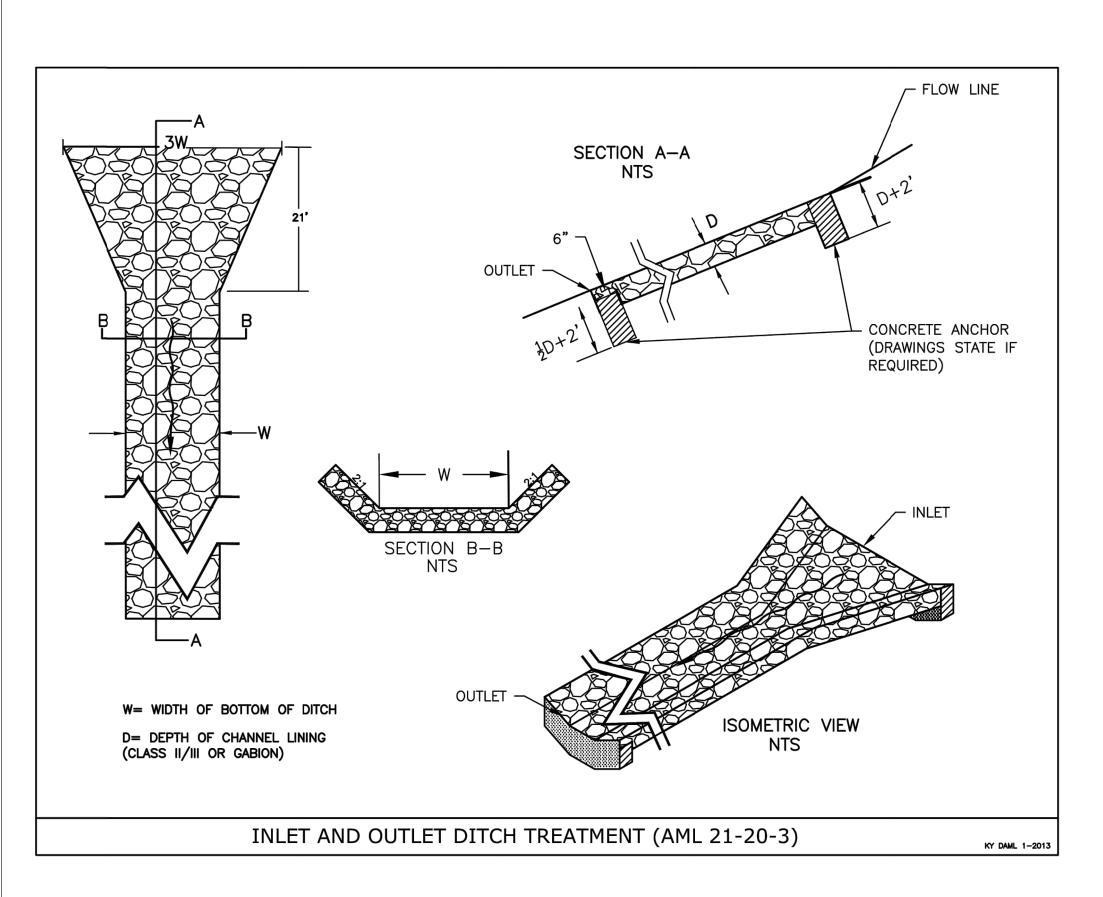


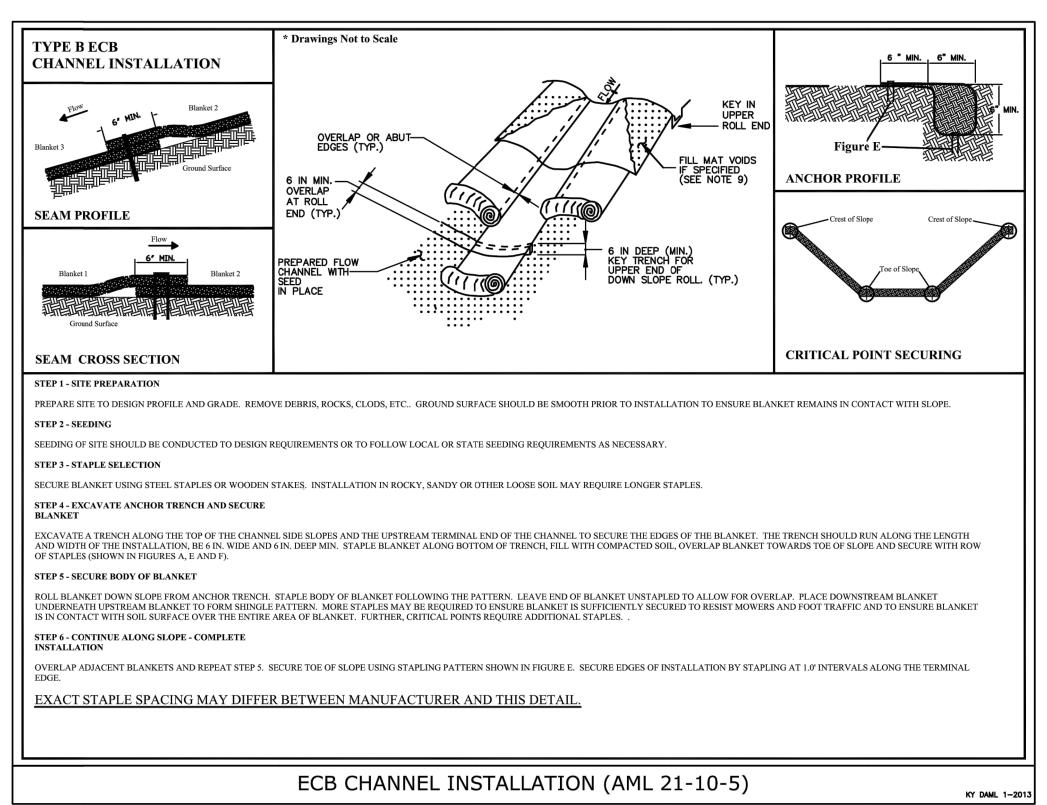


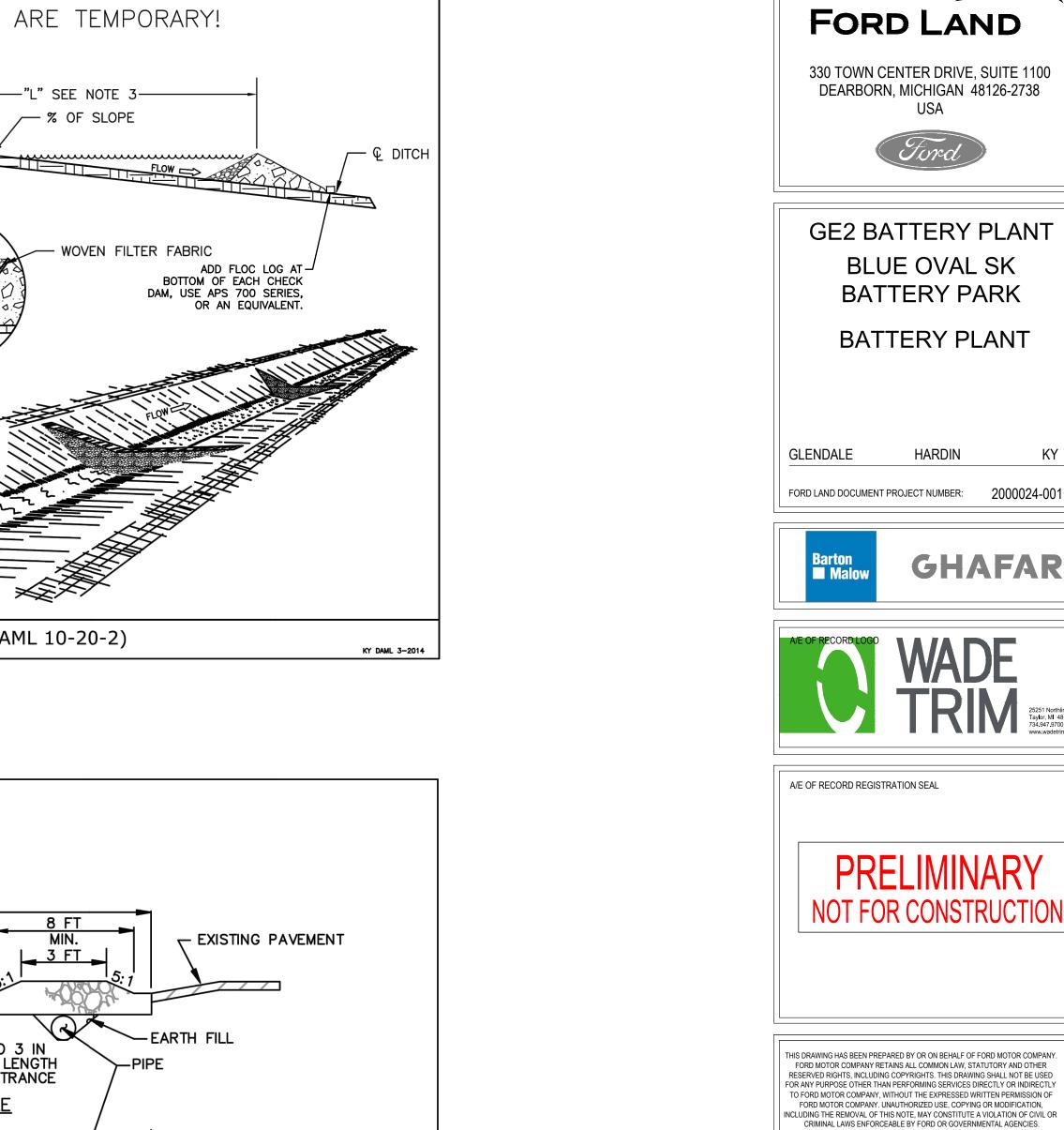


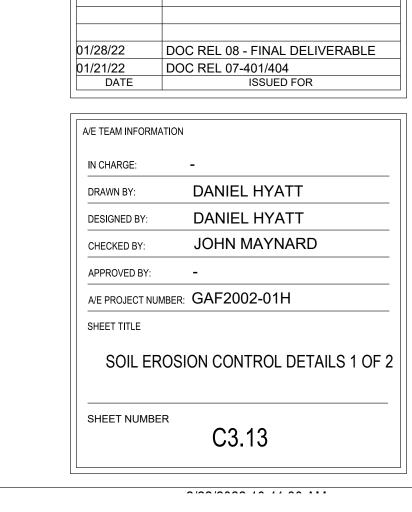












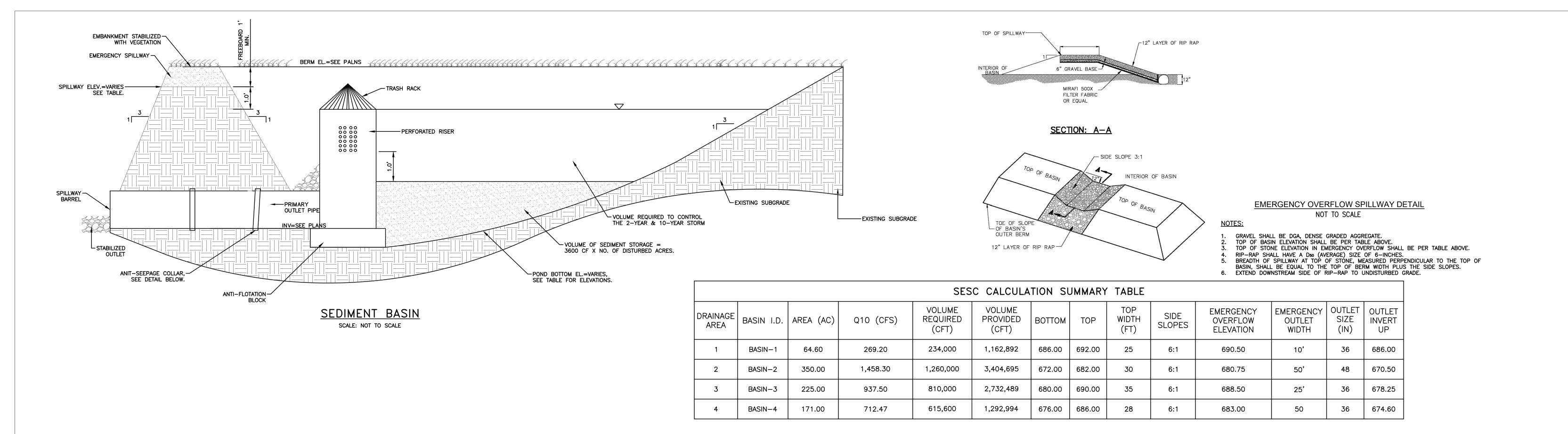
**GE2 BATTERY PLANT** 

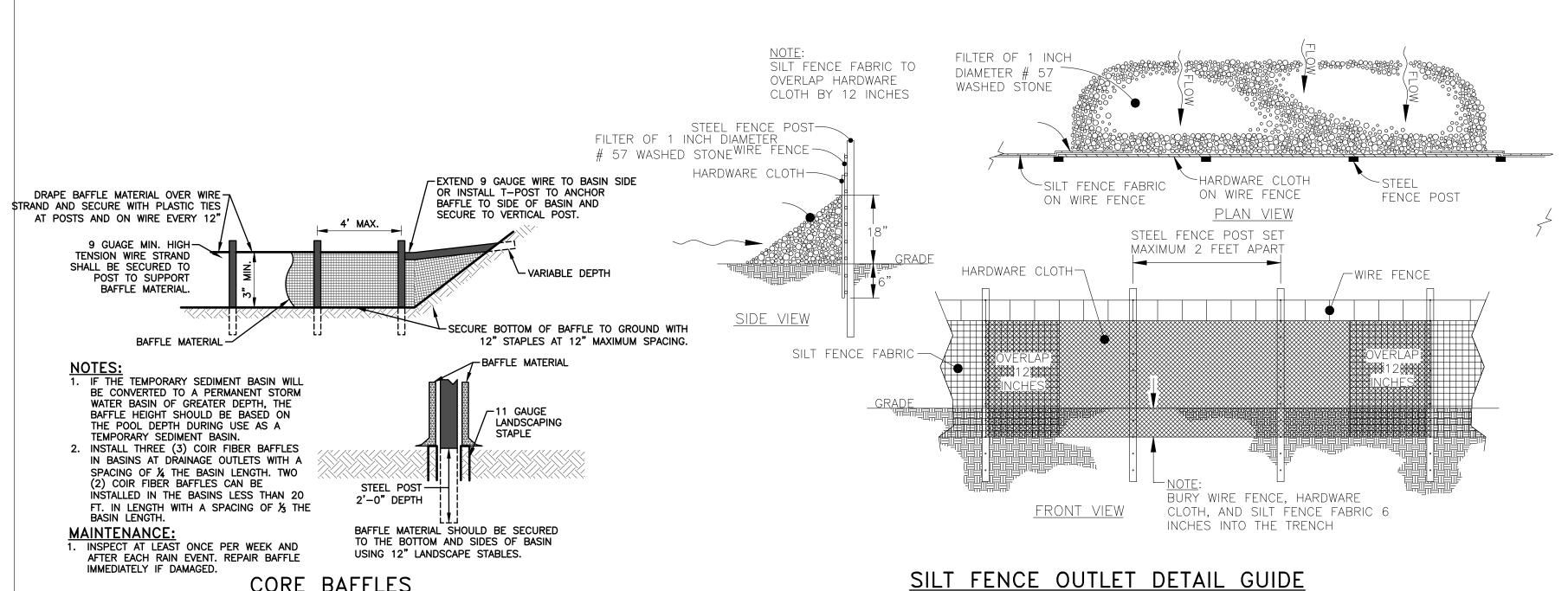
**BLUE OVAL SK** 

**BATTERY PARK** 

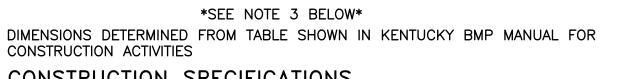
**BATTERY PLANT** 

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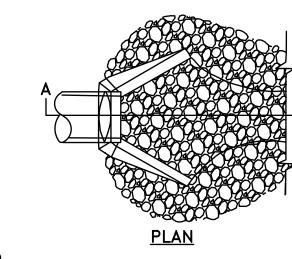
OUTLET PROTECTION TABLE										
CULVERT	do (in)	3do (in)	MAX. DISCHARGE, Q10 (cfs)	d50 (in)	La (ft)	W (ft)	APRON THICKNESS (in)			
D1	36	108	20	6	13	8	9			
D2	42	126	40	6	15	10	9			
D3	60	180	216	12	48	23	27			



- **CONSTRUCTION SPECIFICATIONS** 1. ENSURE THAT THE SUBGRADE FOR THE FILTER AND RIPRAP FOLLOWS THE REQUIRED LINES AND GRADES SHOWN IN THE PLAN. COMPACT AND FILL REQUIRED IN THE SUBGRADE TO THE DENSITY OF THE SURROUNDING UNDISTURBED MATERIAL. LOW AREAS IN THE SUBGRADE ON UNDISTURBED SOIL MAY ALSO BE FILLED BY
- INCREASING THE RIPRAP THICKNESS. 2. THE RIPRAP AND GRAVEL FILTER MUST CONFORM TO THE SPECIFIED GRADING LIMITS SHOWN ON THE PLANS.
- 3. FILTER CLOTH IS REQUIRED AND MUST MEET DESIGN REQUIREMENTS AND BE PROPERLY PROTECTED FROM PUNCHING OR TEARING DURING INSTALLATION. REPAIR ANY DAMAGE BY REMOVING THE RIPRAP AND PLACING ANOTHER PIECE OF FILTER CLOTH OVER THE DAMAGED AREA. ALL CONNECTING JOINTS SHOULD OVERLAP A MINIMUM OF 1 FT. IF THE DAMAGE IS EXTENSIVE, REPLACE THE ENTIRE FILTER
- 4. RIPRAP MAY BE PLACED BY EQUIPMENT, BUT TAKE CARE TO AVOID DAMAGING THE
- 5. THE MINIMUM THICKNESS OF THE RIPRAP SHOULD BE 1.5 TIMES THE MAXIMUM STONE DIAMETER.
- 6. RIPRAP MAY BE FIELD STONE OR ROUGH QUARRY STONE. IT SHOULD BE HARD, ANGULAR, HIGHLY WEATHER-RESISTANT AND WELL GRADED. 7. CONSTRUCT THE APRON ON ZERO GRADE WITH NO OVERFALL AT THE END. MAKE
- THE TOP OF THE RIPRAP AT THE DOWNSTREAM END LEVEL WITH THE RECEIVING AREA OR SLIGHTLY BELOW IT. 8. ENSURE THAT THE APRON IS PROPERLY ALIGNED WITH THE RECEIVING STREAM AND
- PREFERABLY STRAIGHT THROUGHOUT ITS LENGTH. IF A CURVE IS NEEDED TO FIT SITE CONDITIONS, PLACE IT IN THE UPPER SECTION OF THE APRON.

9. IMMEDIATELY AFTER CONSTRUCTION, STABILIZE ALL DISTURBED AREAS WITH

VEGETATION



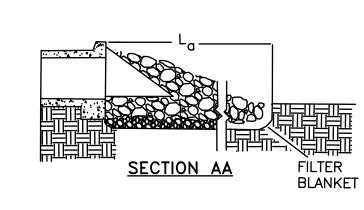
PIPE OUTLET TO FLAT AREA

(NO WELL-DEFINED CHANNEL)

SECTION AA FILTER

PIPE OUTLET TO

WELL-DEFINED CHANNEL



## OUTLET STABILIZATION STRUCTURE

**MAINTENANCE** 

INSPECT RIPRAP OUTLET STRUCTURES AFTER HEAVY RAINS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

1. L IS THE LENGTH OF THE RIPRAP APRON.

- 2. d=1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
- 3. IN A WELL-DEFINED CHANNEL EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAIL WATER DEPTH OR TO THE TOP OF THE BANK, WHICHEVER IS LESS.
- 4. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.

# PLACE WITHIN LIMITS OF DISTURBANCE. SOIL NOT TO BE STOCKPILED OR DISPOSED OF ADJACENT TO DIVERSION DITCH - NORTH AMERICAN GREEN S350, STAPLE PATTERN E W W EXISTING GRADE BW

SCALE: NOT TO SCALE

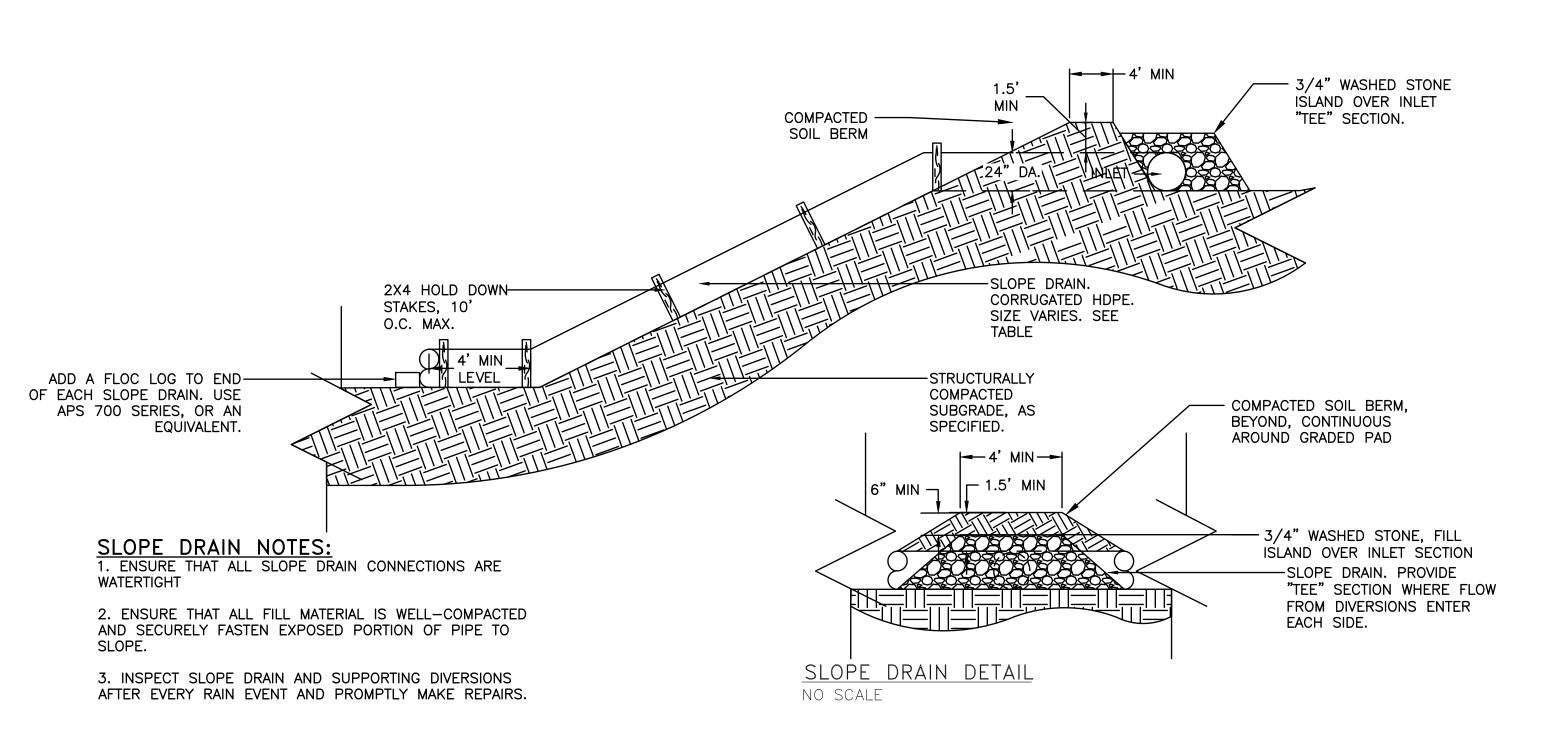
CORE BAFFLES

SCALE: NOT TO SCALE

- NOTES 1. EXCAVATE DITCH FROM LOW END TO HIGH END. EXCAVATE NO MORE THAN 100' OF DITCH PRIOR TO PLACING CHANNEL LINING.
- NO MORE THAN 100' OF DITCH EXPOSED AT ANY TIME. 3. PLACE PERMANENT SEEDING WHEN PLACING CHANNEL LINING. 4. INSTALL CHANNEL LINING PER MONUFACTURERS RECOMMENDATIONS.
- 5. CHANNEL LINING SIZING BASED ON WEB APPLICATION ON NORTH AMERICAN GREEN WEBSITE.
- 6. CONTRACTOR SHALL UTILIZE NORTH AMERICAN GREEN PRODUCTS AS SPECIFIED OR SUBMIT EQUAL TO ENGINEER FOR REVIEW AND APPROVAL.
- INSPECT DITCHES WEEKLY AND AFTER EVERY RAINFALL EVENT. PERFORM REPAIRS AND MAINTENANCE AS NECESSARY TO RESTORE TO ORIGINAL/DESIGN CONDITION.

#### **SWALE DETAIL** SCALE: NOT TO SCALE

	<u>SWALES</u>										
ID	BOTTOM WIDTH	DEPTH	SIDE SLOPE	SLOPE	Q10	VELOCITY	MATTING				
1	10	VARIES	3	0.35%	868.3	4.29	S350, STAPLE PATTERN E				
2	10	VARIES	3	0.35%	593.7	3.87	S350, STAPLE PATTERN E				
<b>3</b> >	10	VARIES	3	0.35%	593.7	3.87	S350, STAPLE PATTERN E				
4>	10	VARIES	3	0.35%	504.2	3.75	S350, STAPLE PATTERN E				



SLOPE DRAIN SCHEDULE							
LABEL	AREA (ACRES)	Q10 (CFS)	DIAMETER	Hw/D			
SD 1-84	MAX 6	25.00	24"	1.39			

1. SLOPE DRAIN DESIGN BASED ON TABLE ABOVE. APPROXIMATE LOCATIONS SHOWN ON PLAN SHEETS. SPACING AND NUMBER OF DRAINS MAY VARY BASED ON FIELD CONDITIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO ADJUST NUMBER AND SPACING AS NEEDED.



GE2 BATTERY PLAN **BLUE OVAL SK BATTERY PARK** 

**BATTERY PLANT** 

GLENDALE HARDIN

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001





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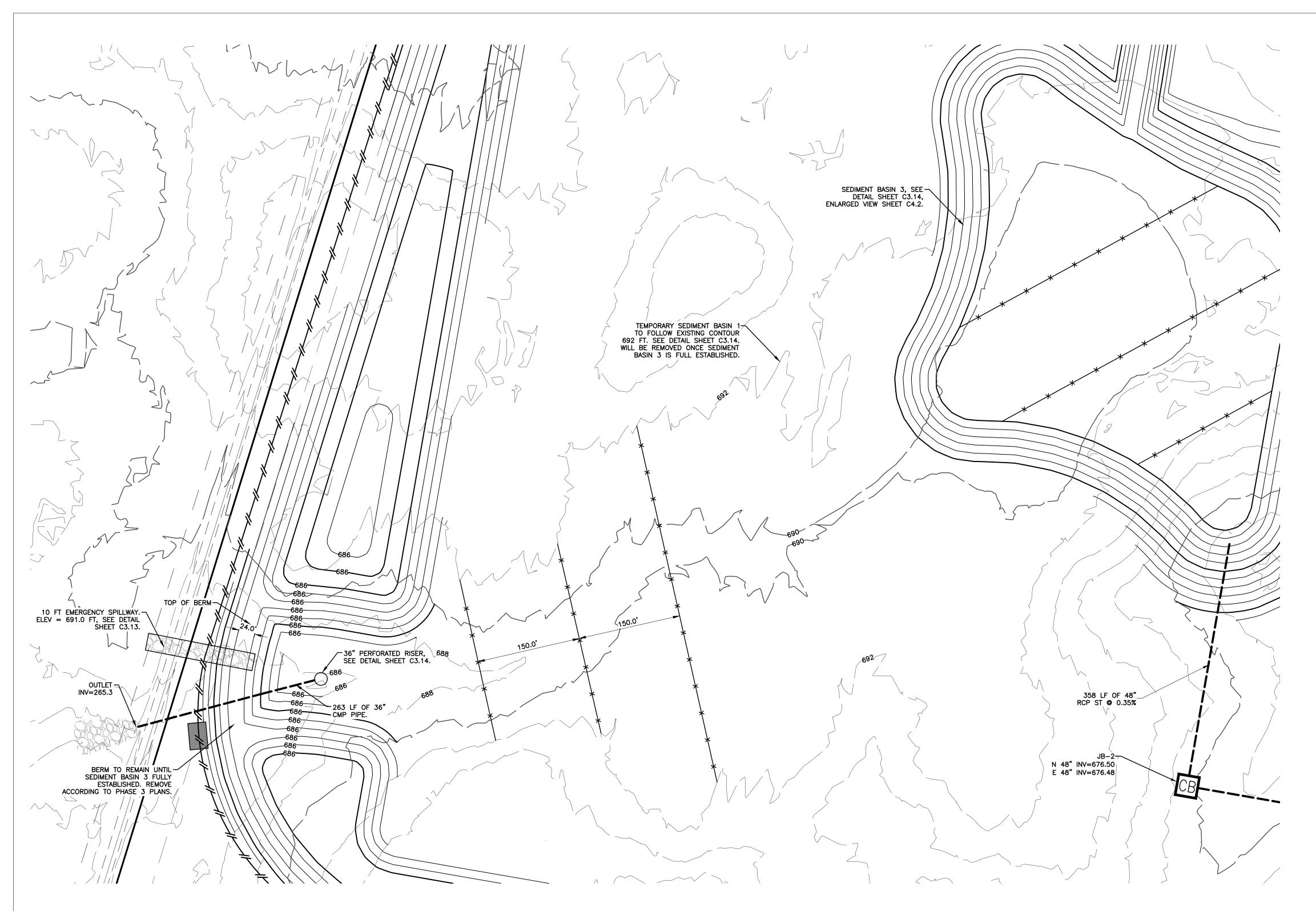
IN CHARGE:	-
DRAWN BY:	DANIEL HYATT
DESIGNED BY:	DANIEL HYATT
CHECKED BY:	JOHN MAYNARD
APPROVED BY:	-
A/E PROJECT NUMBER:	GAF2002-01H
SHEET TITLE	

A/E TEAM INFORMATION

SOIL ERSION CONTROL DETAILS 2 OF 2

SHEET NUMBER C3.14

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PRE-DEVELOPMENT RUNOFF CALCULATIONS							
DRAINAGE AREA AREA (ACRES)  TIME OF CONCENTRATION CURVE NUMBER Q2-24HR (CFS) Q10-24HR (CFS) (CFS)							
AREA 1	64.6	96	71	22.17	46.70	45.61	

POST DEVELOP	MENT RUNOFF	CALCULATIO	<u>)NS</u>			
DRAINAGE AREA	AREA (ACRES)	TIME OF CONCENTRATION (MINS)	CURVE NUMBER	Q10-1HR (CFS)	Q100-1HR (CFS)	Q100-6HR (CFS)
AREA 1	64.6	16.7	91	179.02	269.16	204.80

CONTROLLED RU	JNOFF CALCU	<u>LATIONS</u>			
DRAINAGE AREA	AREA (ACRES)	TIME OF CONCENTRATION	CURVE NUMBER	Q10-1HR (CFS)	Q100-1HR (CFS)
AREA 1	64.6	16.7	91	16.19	19.35



USA

GE2 BATTERY PLANT
BLUE OVAL SK
BATTERY PARK
BATTERY PLANT

GLENDALE HARDIN

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001

Barton GHAFARI



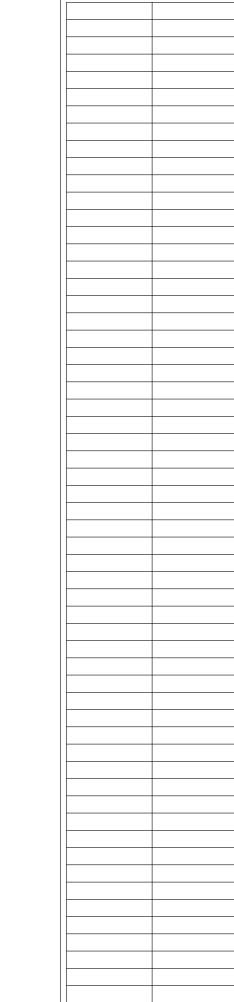


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A/E TEAM INFORMATION

IN CHARGE: 
DRAWN BY: DANIEL HYATT

DESIGNED BY: DANIEL HYATT

 01/28/22
 DOC REL 08 - FINAL DELIVERABLE

 01/21/22
 DOC REL 07-401/404

 DATE
 ISSUED FOR

CHECKED BY: JOHN MAYNARD

APPROVED BY: 
A/E PROJECT NUMBER: GAF2002-01H

SHEET TITLE

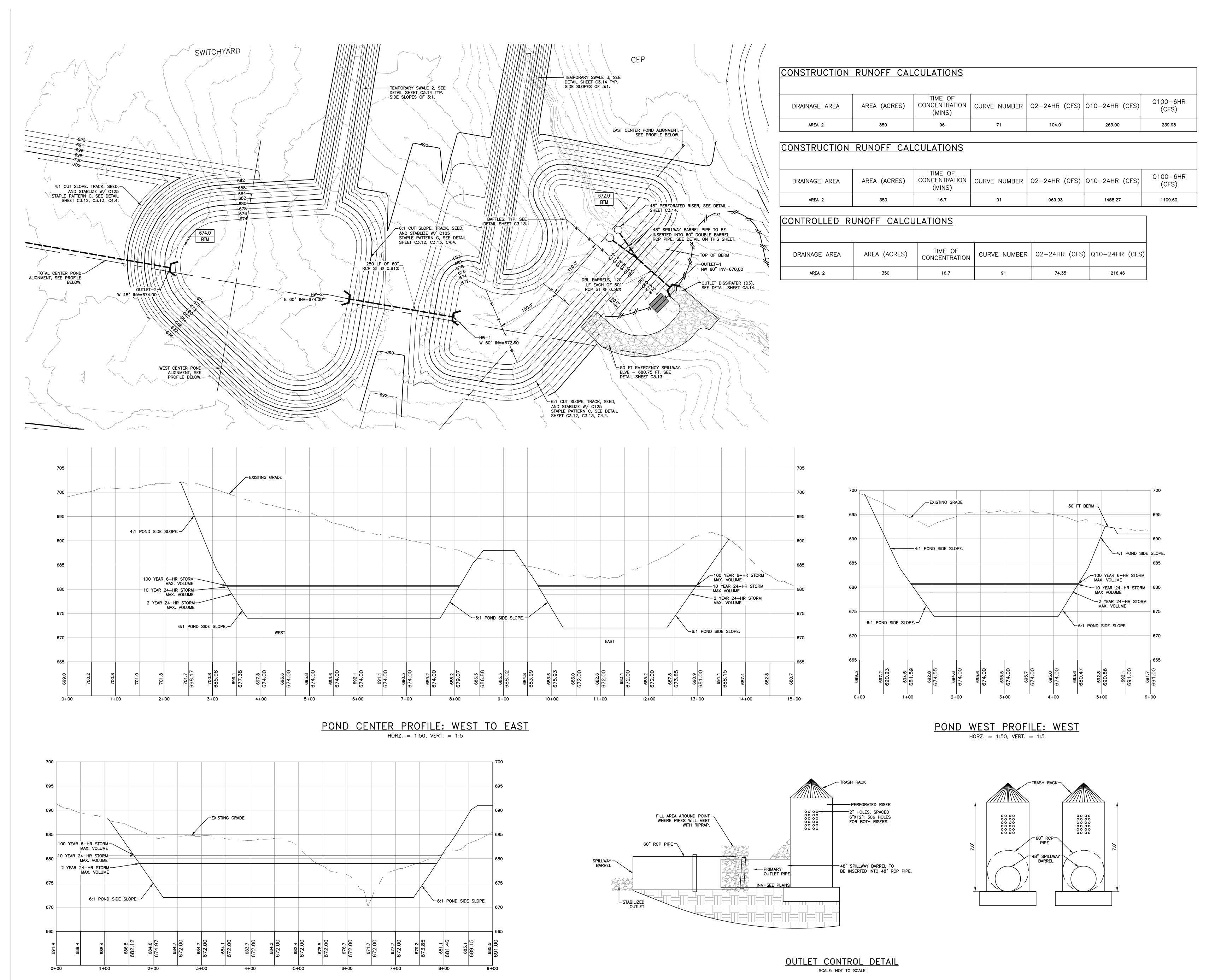
ENLARGED VIEW- BASIN 1

0/00/0000 40 40 47 414

SHEET NUMBER

IMBER





POND CENTER PROFILE: EAST

HORZ. = 1:50, VERT. = 1:5



**GE2 BATTERY PLANT BLUE OVAL SK** BATTERY PARK

**BATTERY PLANT** 

**GLENDALE** HARDIN

FORD LAND DOCUMENT PROJECT NUMBER:





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APPROVED BY:

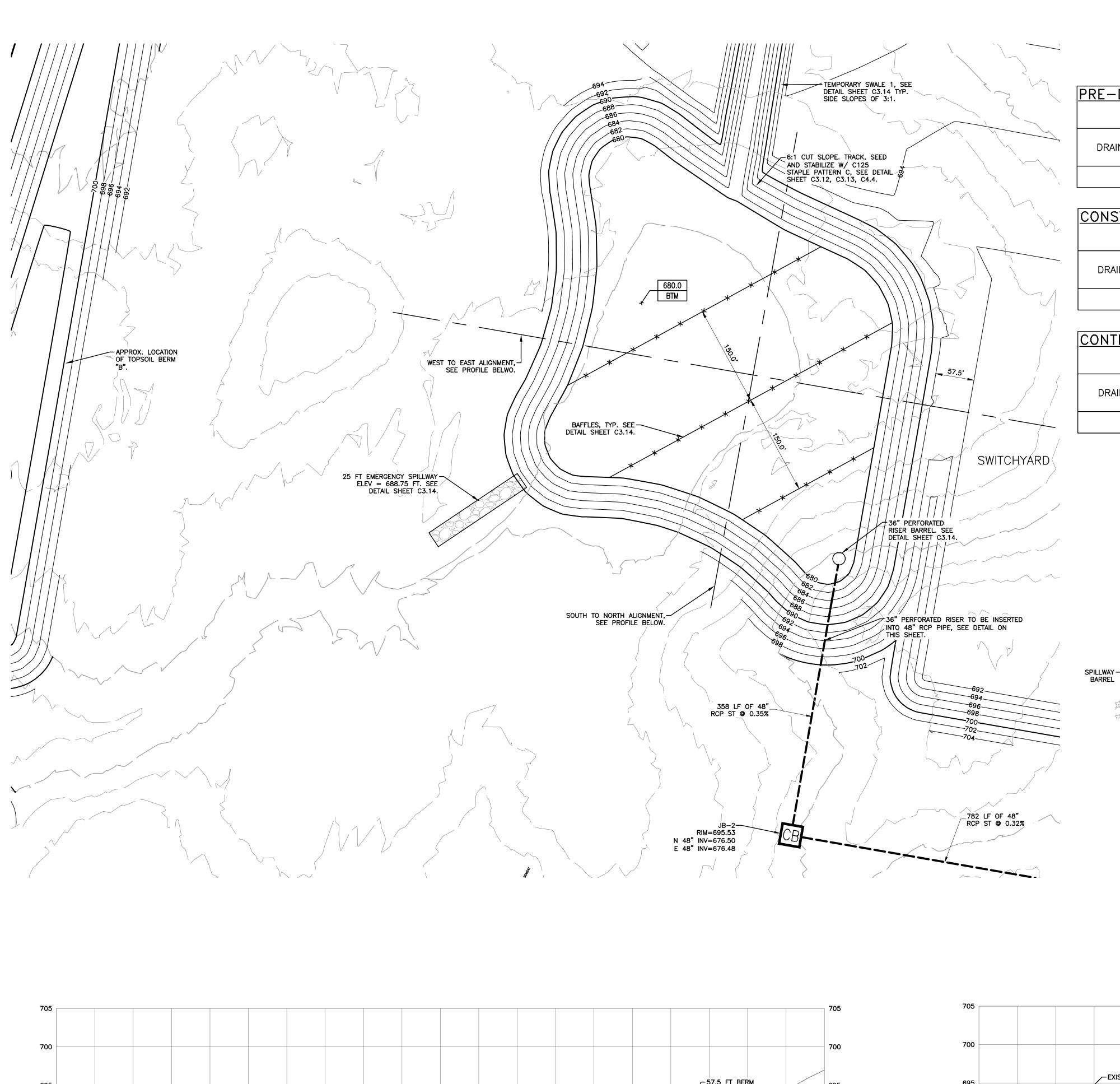
IN CHARGE: DANIEL HYATT DRAWN BY: DANIEL HYATT JOHN MAYNARD CHECKED BY:

A/E PROJECT NUMBER: GAF2002-01H SHEET TITLE

ENLARGED VIEW - BASIN 2

SHEET NUMBER

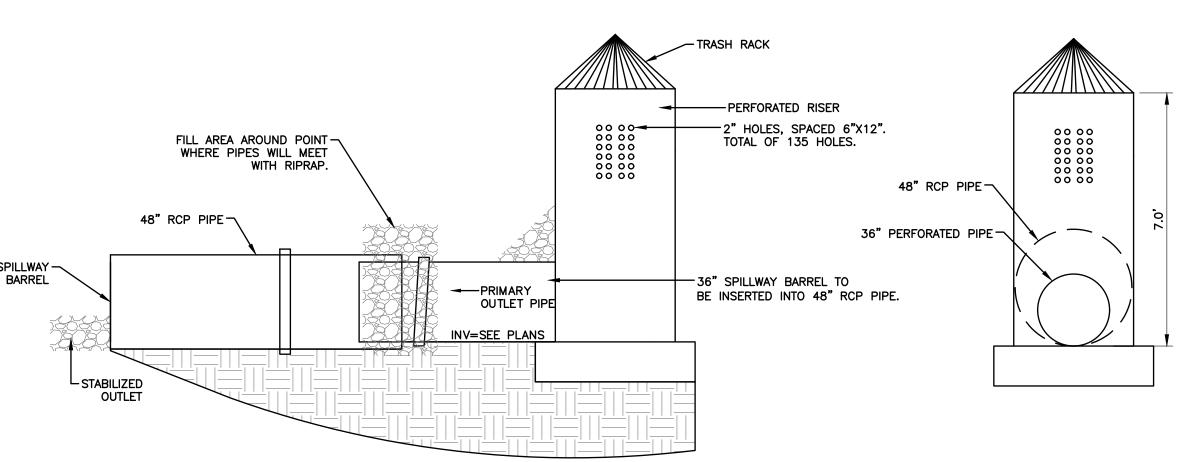




PRE-DEVELOPM	ENT RUNOFF	CALCULATIO	<u>NS</u>			
DRAINAGE AREA	AREA (ACRES)	TIME OF CONCENTRATION (MINS)	CURVE NUMBER	Q2-24HR (CFS)	Q10-24HR (CFS)	Q100-6HR (CFS)
AREA 3	225	96	71	77.23	162.65	158.86

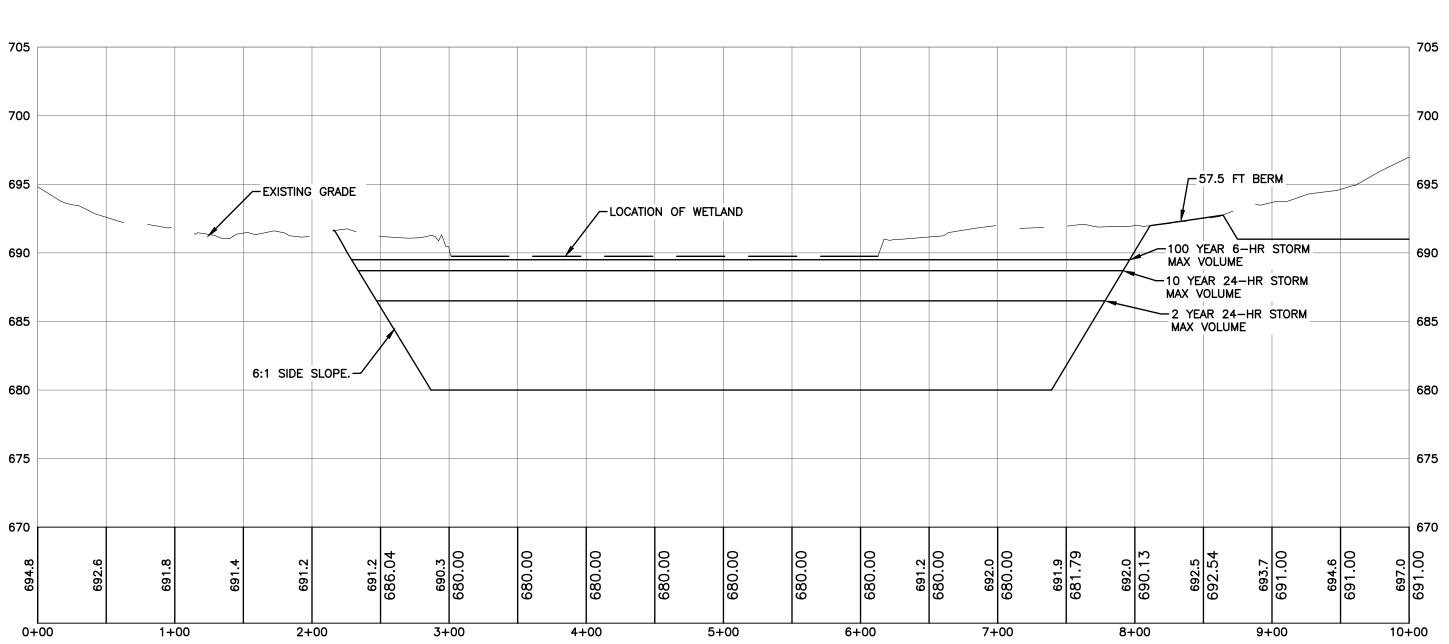
CONSTRUCTION	RUNOFF CAL	CULATIONS				
DRAINAGE AREA	AREA (ACRES)	TIME OF CONCENTRATION (MINS)	CURVE NUMBER	Q2-24HR (CFS)	Q10-24HR (CFS)	Q100-6HR (CFS)
AREA 3	225	16.7	91	623.53	937.46	713.31

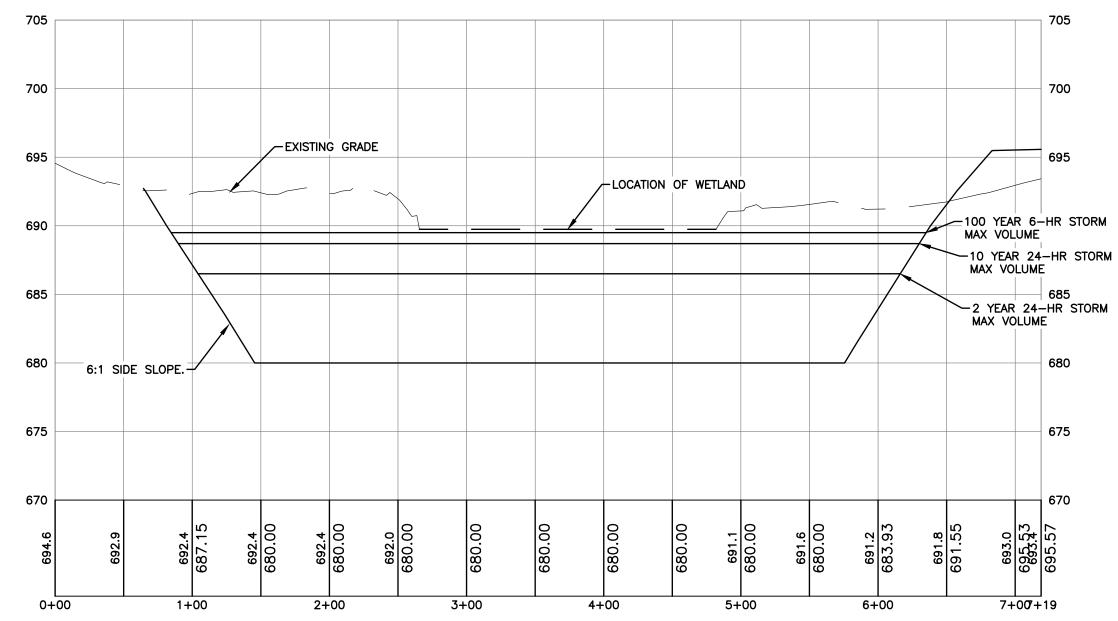
	CONTROLLED RU	JNOFF CALCU	<u>LATIONS</u>			
<i>(</i>	DRAINAGE AREA	AREA (ACRES)	TIME OF CONCENTRATION	CURVE NUMBER	Q2-24HR (CFS)	Q10-24HR (CFS)
	AREA 3	225	16.7	91	31.22	58.40



OUTLET CONTROL DETIAL

SCALE: NOT TO SCALE





POND WEST PROFILE: WEST TO EAST HORZ. = 1:40, VERT. = 1:4

POND WEST PROFILE: SOUTH TO NORTH

HORZ. = 1:40, VERT. = 1:4



GE2 BATTERY PLANT
BLUE OVAL SK
BATTERY PARK
BATTERY PLANT

GLENDALE HARDIN K

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-001

Barton GHAFARI



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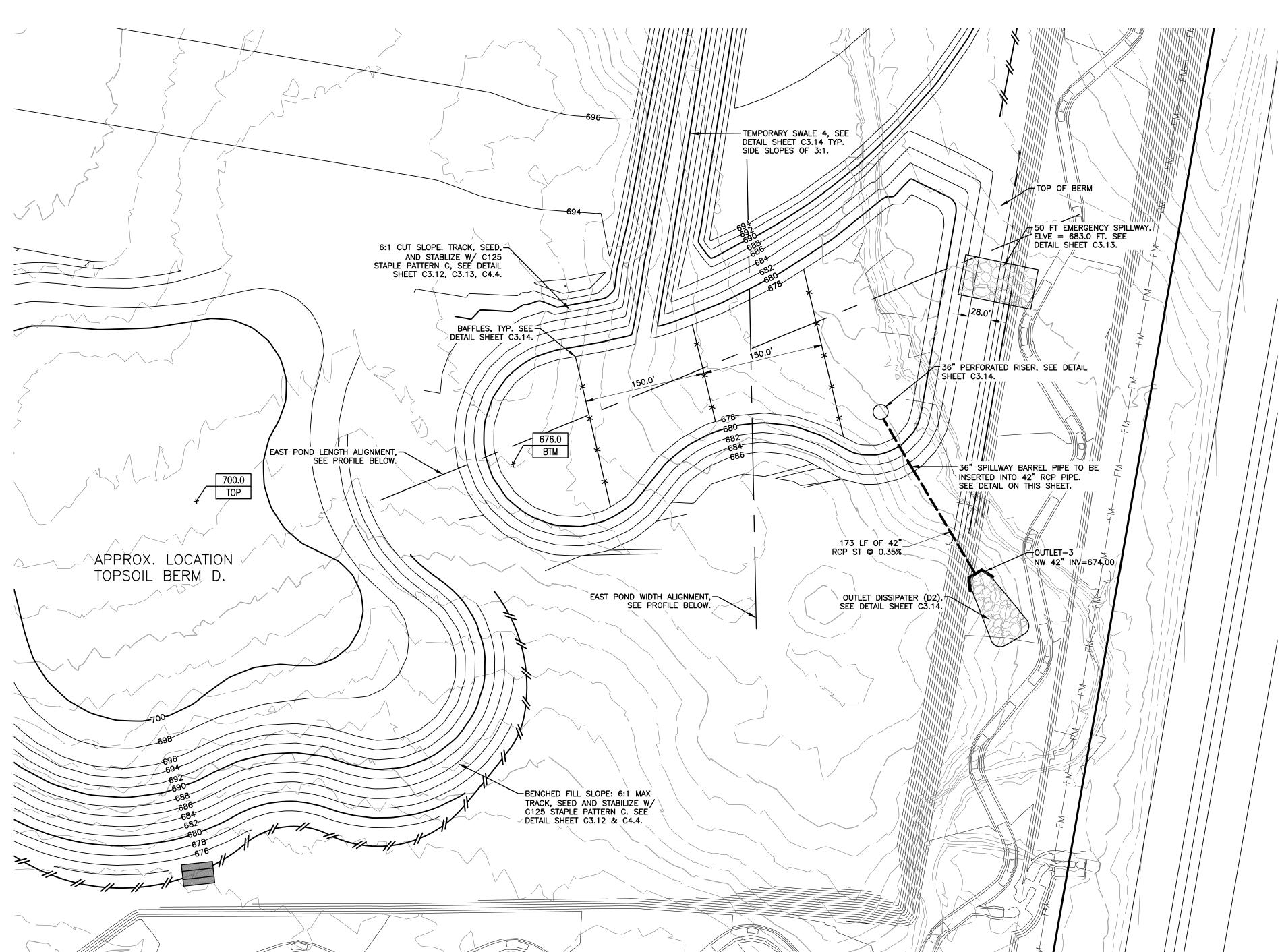
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IN CHARGE:	-
DRAWN BY:	DANIEL HYATT
DESIGNED BY:	DANIEL HYATT
CHECKED BY:	JOHN MAYNARD
APPROVED BY:	-
A/E PROJECT NUMBE	R: GAF2002-01H
SHEET TITLE	
FN	LARGED VIEW - BASIN 3
SHEET NUMBER	
SHEET NUMBER	

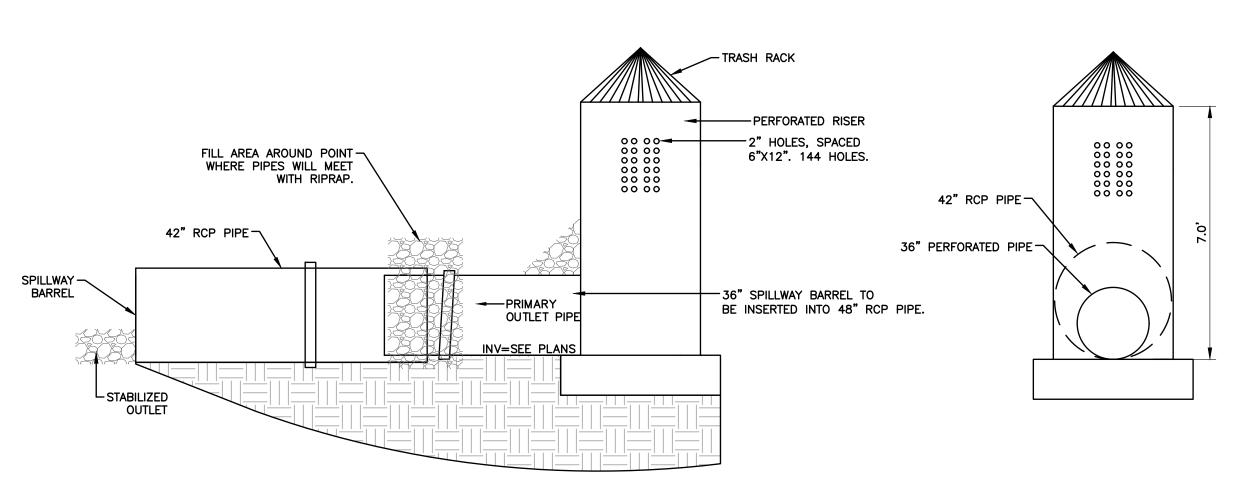




DRAINIACE AREA	AREA (ACRES)	TIME OF CONCENTRATION	CURVE NUMBER	02_24HB (0ES)	Q10-24HR (CFS)	Q100-6HR
DRAINAGE AREA	AREA (ACRES)	(MINS)	CURVE NUMBER	Q2-24HR (CF3)	Q10-24HK (CF3)	(CFS)
AREA 4	171	96	71	58.69	123.61	120.74
CONSTRUCTION			71	58.69	123.61	12

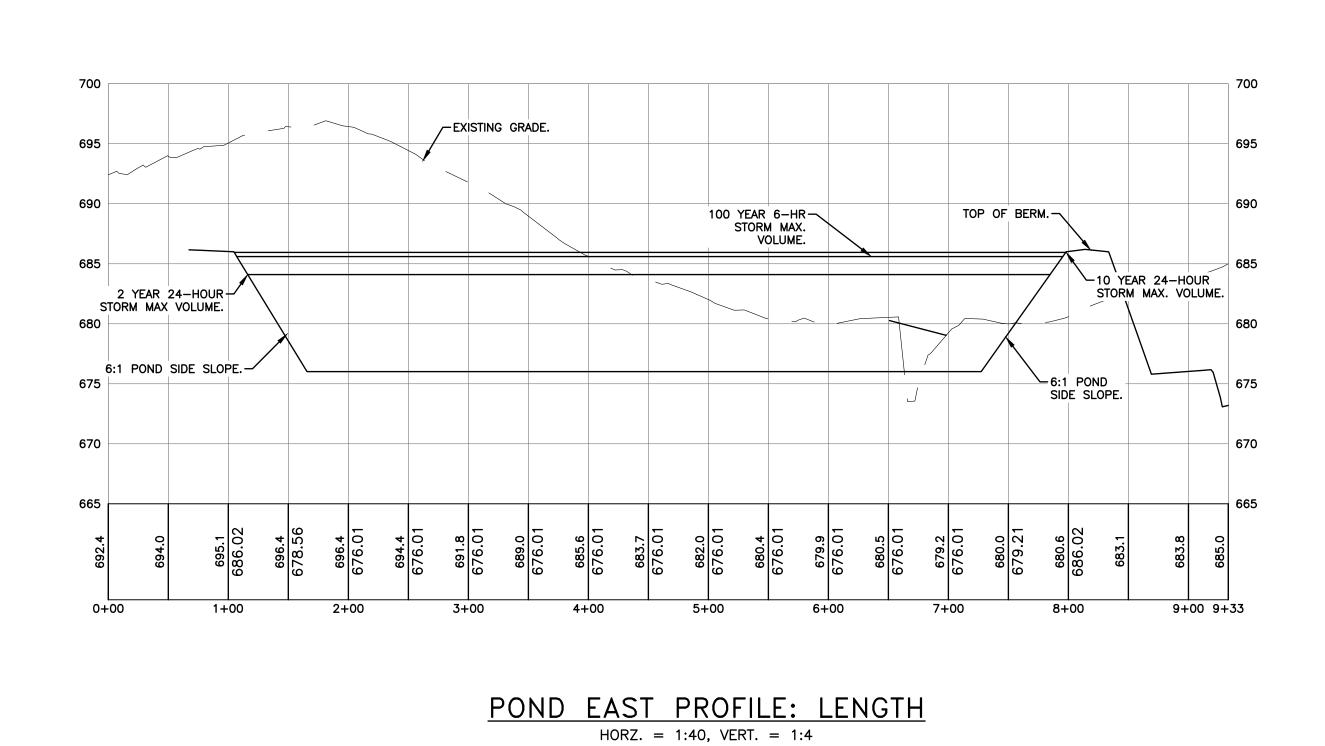
CONSTRUCTION	KUNOFF CAL	CULATIONS				
DRAINAGE AREA	AREA (ACRES)	TIME OF CONCENTRATION (MINS)	CURVE NUMBER	Q2-24HR (CFS)	Q10-24HR (CFS)	Q100-6HR (CFS)
AREA 4	171	16.7	91	473.88	712.47	542.12

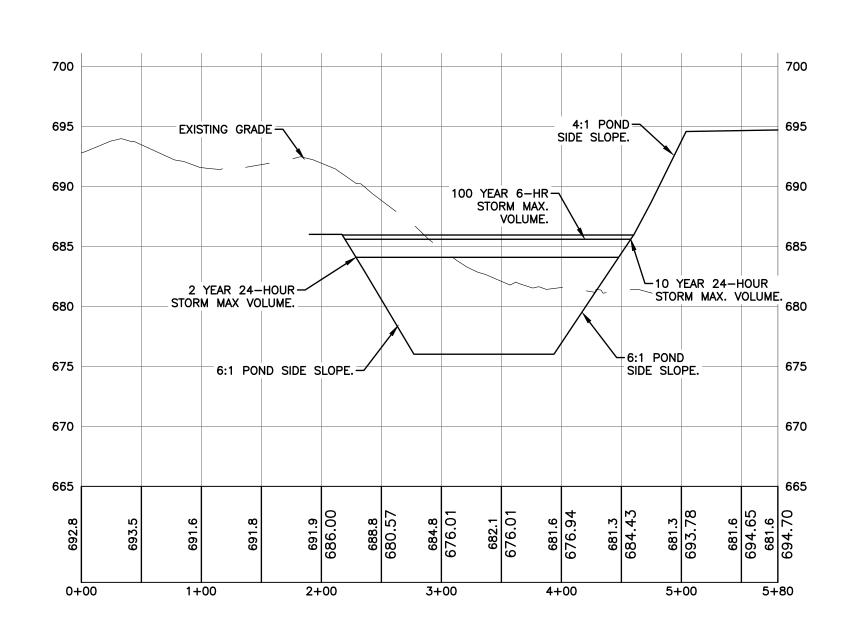
CONTROLLED RU	JNOFF CALCU	<u>LATIONS</u>			
DRAINAGE AREA	AREA (ACRES)	TIME OF CONCENTRATION	CURVE NUMBER	Q10-1HR (CFS)	Q100-1HR (CFS)
AREA 4	171	16.7	91	62.57	117.59



OUTLET CONTROL DETIAL

SCALE: NOT TO SCALE





POND EAST PROFILE: WIDTH HORZ. = 1:40, VERT. = 1:4



GE2 BATTERY PLANT
BLUE OVAL SK
BATTERY PARK
BATTERY PLANT

GLENDALE HARDIN K

FORD LAND DOCUMENT PROJECT NUMBER: 2000024-0





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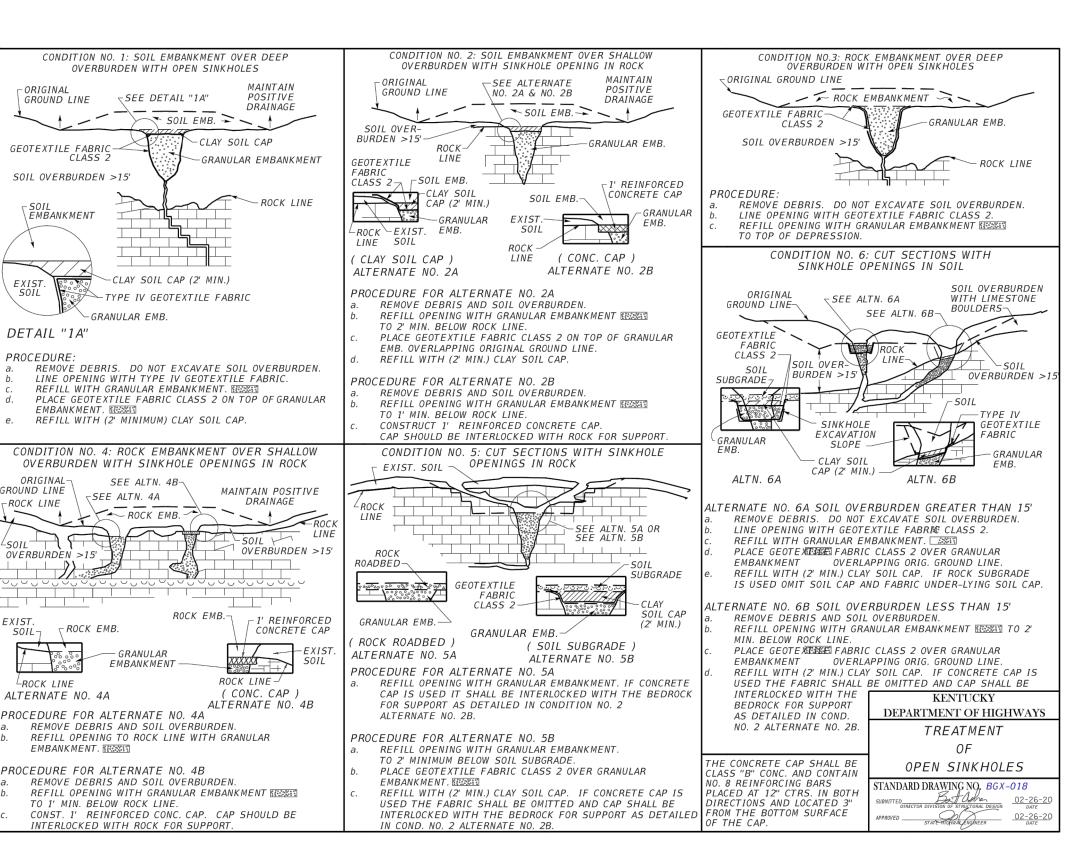
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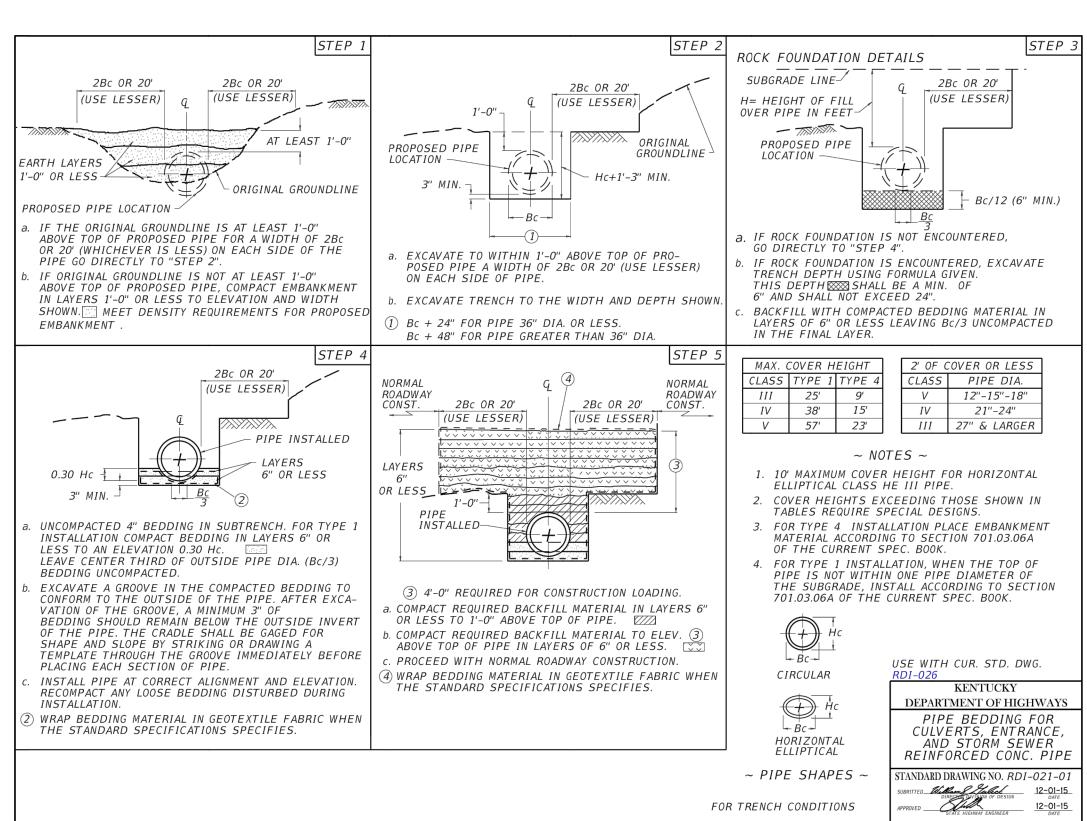
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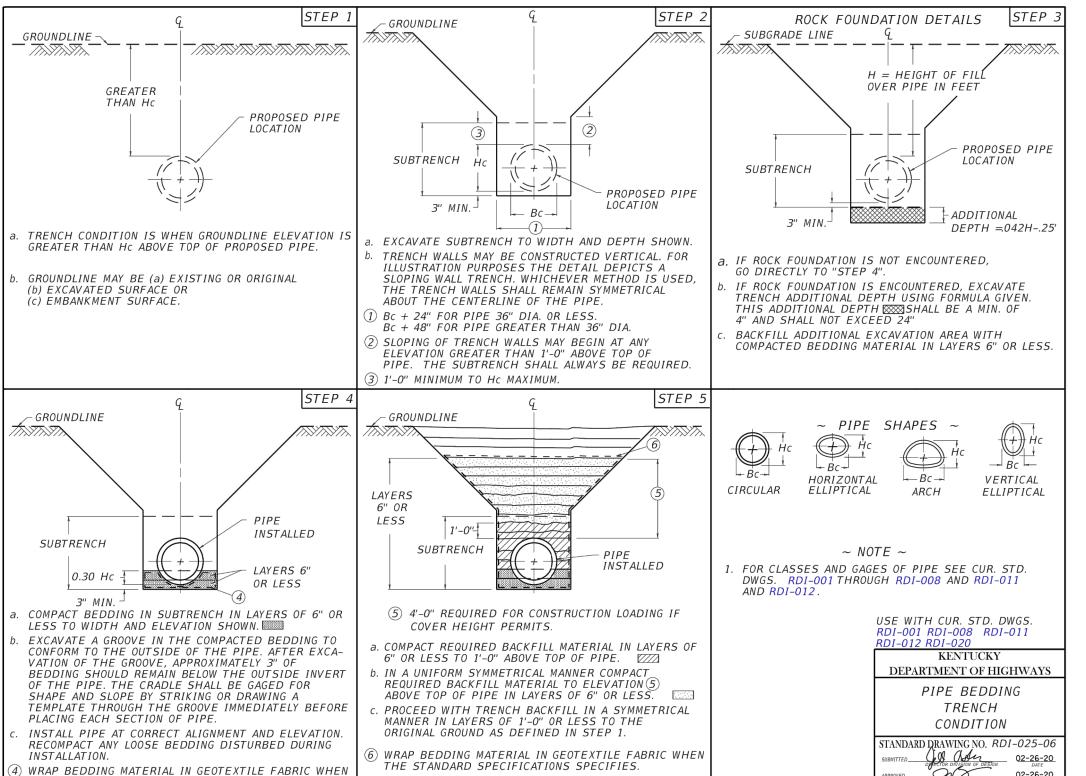
IN CHARGE:
DRAWN BY:
DANIEL HYATT
DESIGNED BY:
DANIEL HYATT
CHECKED BY:
JOHN MAYNARD
APPROVED BY:
A/E PROJECT NUMBER: GAF2002-01H
SHEET TITLE

ENLARGED VIEW - BASIN 4

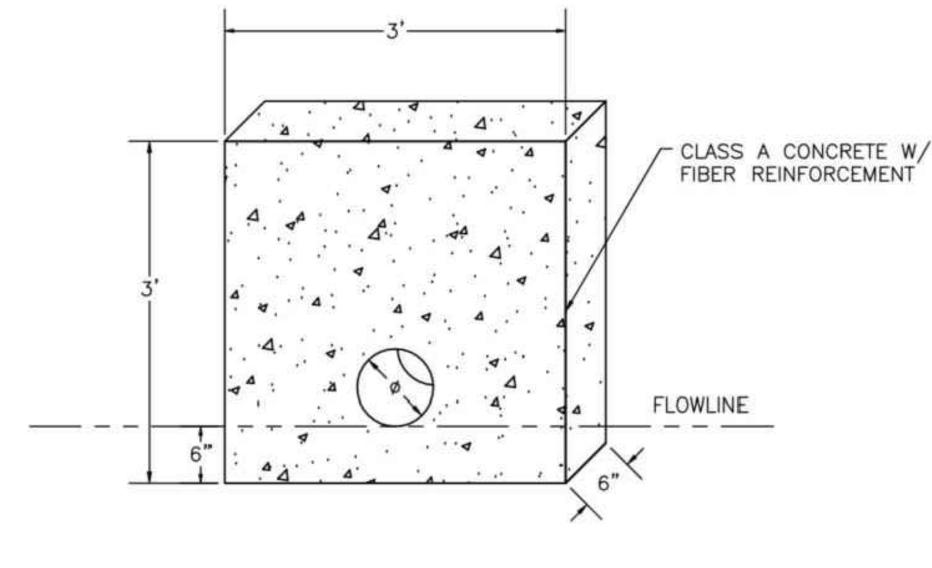




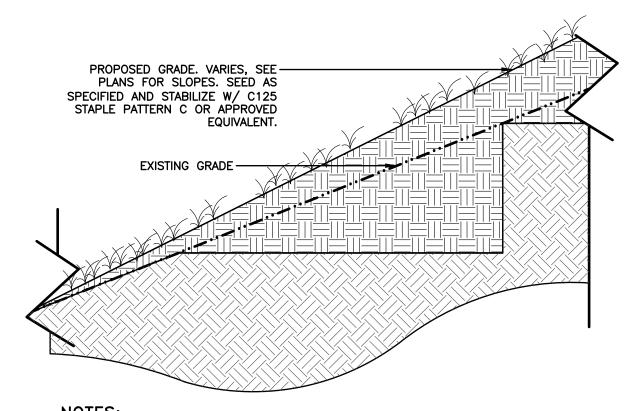




### SUBDRAIN COLLARS JOIN PERFORATED AND NON-PERFORATED PIPE.



ANTI-SEEPAGE COLLAR SCALE: NOT TO SCALE

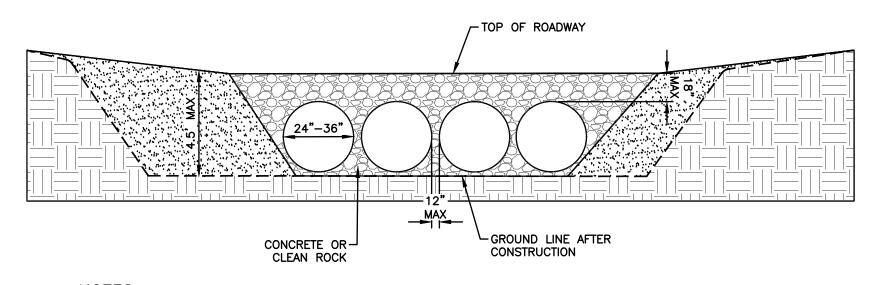


NOTES:

1. INSTALL MATTING AND SEED FILL SLOPE EVERY 8 VERTICAL FEET, AS SLOPE IS CONSTRUCTED. INSTALL FILL MATERIAL IN 8" LIFTS MAXIMUM AND COMPACT TO 95% MDD OR AS RECOMMENDED BY THE OWNER'S GEO-TECHNICAL ENGINEERING CONSULTANT. CONSTRUCTED FILL SLOPE SHOULD BE "BENCHED-IN" STEEPER THAN THE DESIGN GRADE THEN CUT BACK TO THE DESIGNED SLOPE OR RECOMMENDED BY THE OWNER'S GEO-TECHNICAL ENGINEERING CONSULTANT.

BENCHED FILL SLOPE SCALE: NOT TO SCALE

**SURFACE ROUGHING** SCALE: NOT TO SCALE



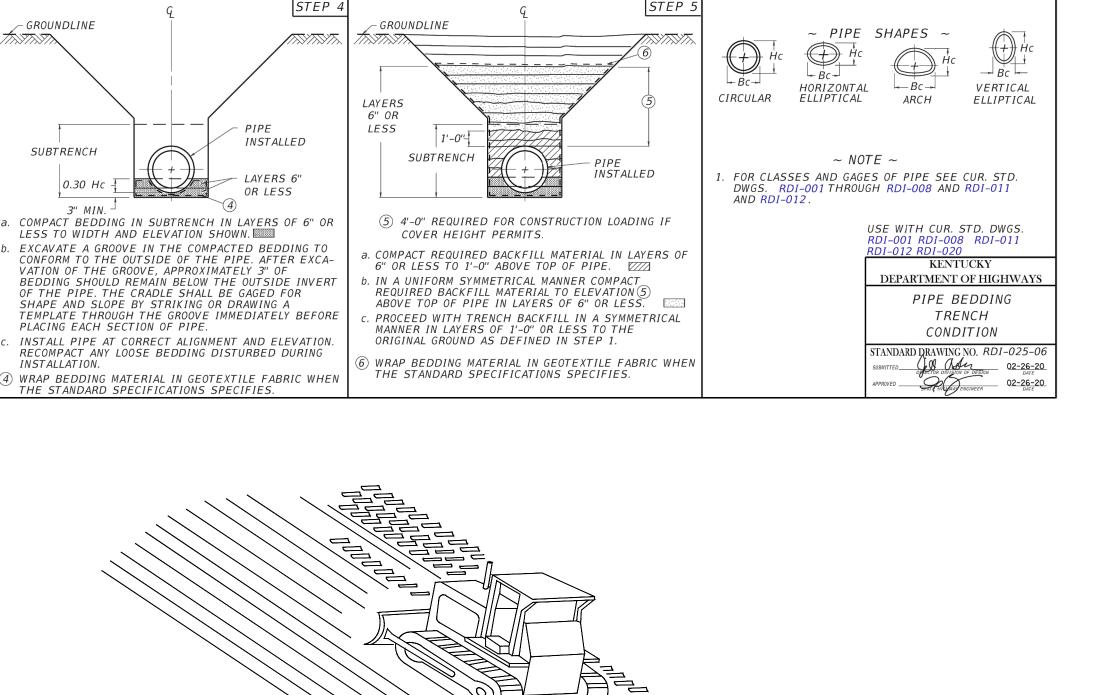
THIS IS A CONCEPTUAL DRAWING. THE NUMBER AND SIZE OF PIPES AND OTHER DETAILS WILL VARY DEPENDING ON SPECIFIC SITE CONDITIONS. 2. THE PIPES AND BACKFILL MUST BE CONTAINED WITHIN THE STREAM CHANNEL AS SHOWN ABOVE. DURING THE CONSTRUCTION OF THE APPROACHES AND ACCESS ROADWAY ACROSS FLOODPLAIN, UNSTABLE AND UNCONSOLIDATED MATERIAL UNSUITABLE FOR ROADWAYS MAY BE EXCAVATED AND REPLACED WITH RIPRAP, CRUSHED STONE, AND OTHER STABLE ROAD CONSTRUCTION MATERIALS. THIS MAY ONLY BE DONE, HOWEVER, WITH THE FOLLOWING PROVISIONS 1) THE DISPOSAL OF EXCESS, UNCONSOLIDATED MATERIALS THUS EXCAVATED MUST BE OUTSIDE OF THE FLOODPLAIN AND 2) THE FINISHED SURFACE OF THE COMPLETED ROAD MAY BE NO MORE THAN THREE INCHES (3") ABOE THE PRE-CONSTRUCTION SURFACE OF THE FLOODPLAIN AT ANY POINT BEYOND THE TOP OF THE BANKS.

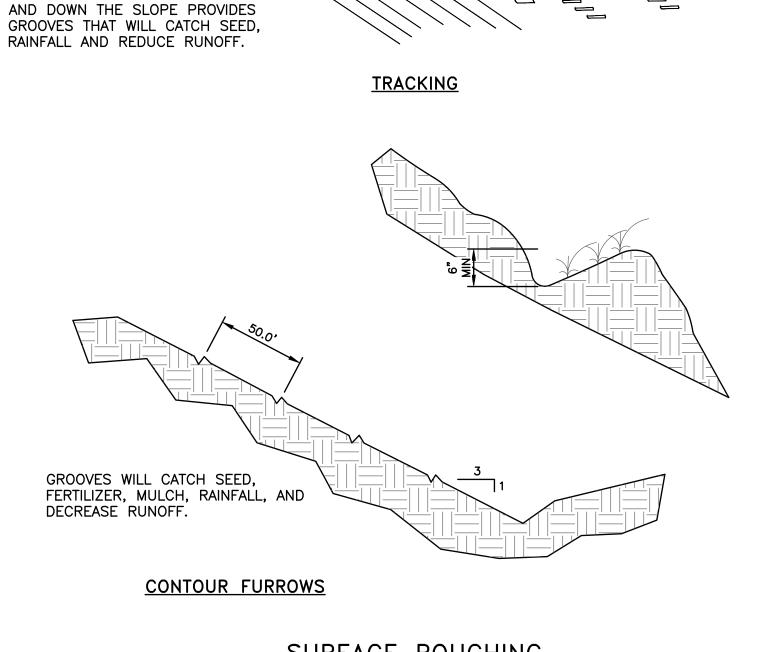
**GUIDELINES:** 

THERE SHALL BE A MAXIMUM FILL HEIGHT OF FOUR AND ON-HALF (4.5) FEET MEASURED FROM THE CHANNEL BOTTOM TO THE TOP OF THE PROPOSED CROSSING. AS MANY PIPES AS POSSIBLE SHALL BE PLACED WITHIN THE STREAM BANKS. FILL MATERIAL USED TO COVER THE PIPES SHALL BE COMPOSED ENTIRELY OF CLEAN ROCK OR CONCRETE. NO SOIL SHALL BE ALLOWED IN THE FILL.

ALL PIPES SHALL BE LAID FLUSH WITH THE BOTTOM OF THE STREAM CHANNEL.

TEMPORARY STREAM CROSSING





TRACKING WITH MACHINERY UP

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FORD LAND

330 TOWN CENTER DRIVE, SUITE 1100 DEARBORN, MICHIGAN 48126-2738

**GE2 BATTERY PLANT** 

**BLUE OVAL SK** 

**BATTERY PARK** 

BATTERY PLANT

HARDIN

2000024-001

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GLENDALE

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APPROVED BY:	-
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